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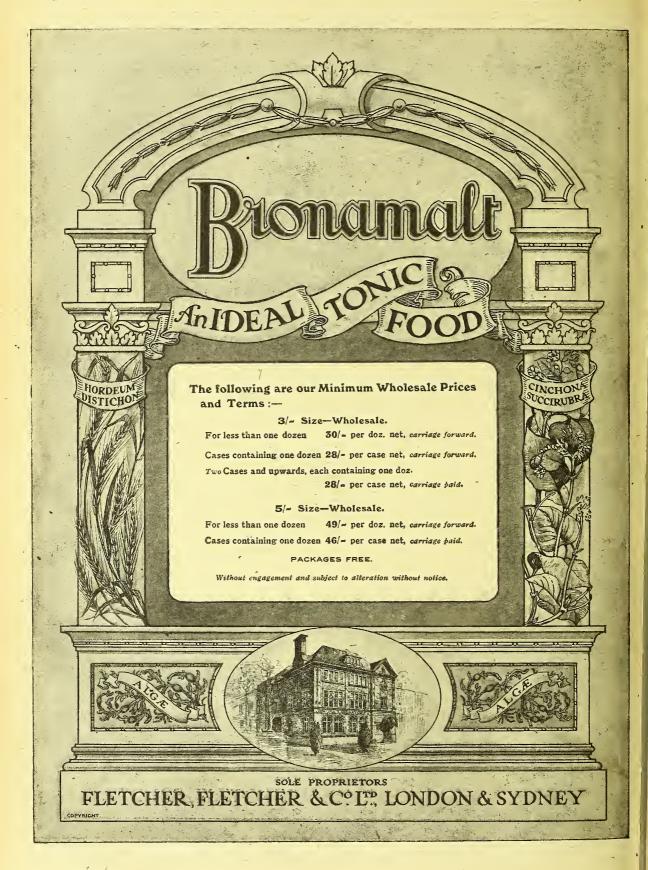
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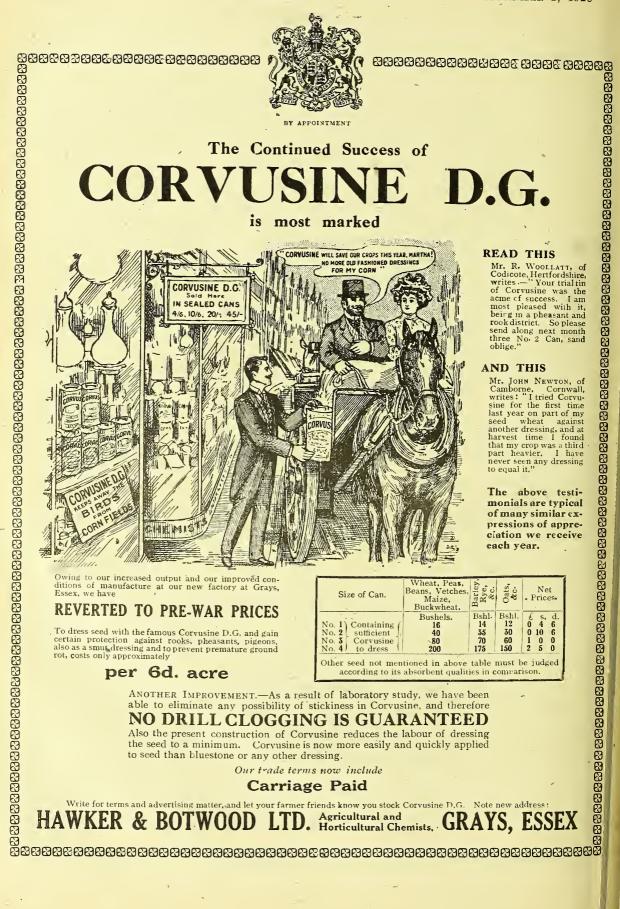
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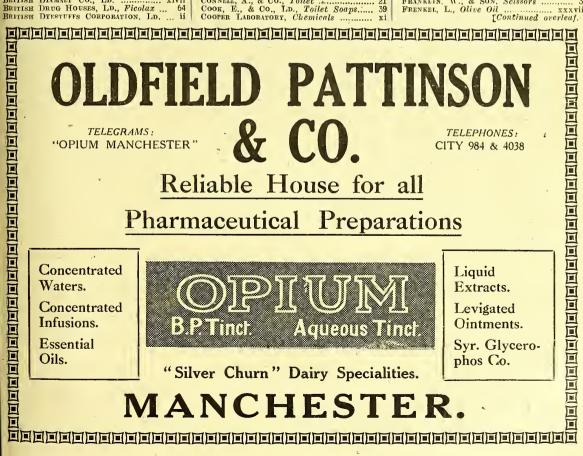
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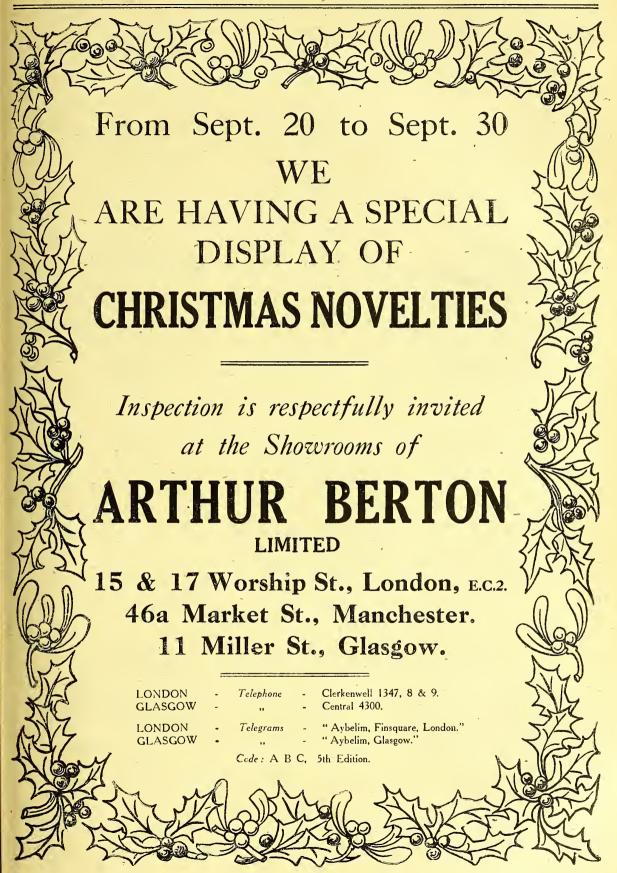
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Inland—"Jehangir, Ave, London."



1820=1920 DAKIN BROTHERS, LTD. Centenary WE cannot allow the occasion of the Centenary of the founding of our business as well as in the Far East, for their cordial relationship with our House ranging in some few cases to upwards of 60 years with it its quota of new friends whom we heartly welcome. At this period of the Firm? etitience it may, perhap, be of interest inst to recall shortly the origin and growth of the business. In the year 1820 it was founded by a Mr. Wm. Bryden (whose brother, Dr. Bryden, was a noted man in his day, being the only survivor of the terrible Cabul massacre of 1842, and subsequently amongst those who survived the siege of Lucknow.) Soon, however, the profile for firm and subsequently amongst those who survived the siege of Lucknow.) Soon, however, the profile for firm Dakin Rothers—the premises were then in abchurch Lane, King William Street, No. 23, where the son of Mr. J. Harrison Dakin, commenced his business career. This building is still standing, and the firm partnership. On the death of his father in the year 1882 he took over the fail massagement of the business. Dakin, who had been knighted at the end of his year of office as Lord Mayor of London, retiring from the Firm. MR. Georgest Dakin. MR. George

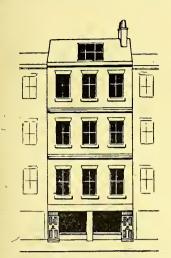












PREMISES IN ABCHURCH LANE, WHERE THE FIRM COMMENCED BUSINESS 100 YEARS AGO.

Our plant has been developed at each stage of the extension of premises above referred to, and is now of the most modern description for our various manufactures.

Mr. J. H. Dakin has personally paid periodical visits to the Far East, thus gaining the advantage of a first-hand knowledge of our customers and their requirements.

TRADE MARK.



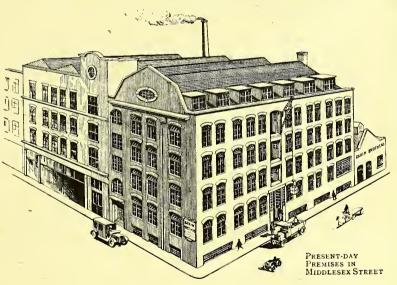
GLOBE BRAND

The business continued steadily to develop, and again involved an extension of premises which was met by taking in those next door. Subsequently, increased room becoming once more imperative, Mr. J. H. Dakin built the Company's present premises in the year 1901, and these again have since been largely extended by the addition of an annexe built on ground reserved for the purpose.

In the year 1907 the business, for family reasons, was converted into a private Limited Company, and the Directors now consist of Mr. J. Harrison Dakin, his eldest son Mr. Geoffrey Dakin, and Mr. A. V. Appleton who has over thirty years' se vice to his credit in the Firm.

From this short account our guiding policy may be deduced. It does not consist in any phenomenal "forced draught" development or any sensational methods, but solely in sparing no endeavour to satisfy each one of our customers in all respects by close personal attention to their requirements, and maintaining our plant and business methods in keeping with the latest developments, thus striving to secure their complete and lasting confidence.

On these lines our business has been built up, and on these lines we hope to continue to build and so make this, our Centenary, a starting-point for further progress.



DAKIN BROTHERS, LTD.

WHOLESALE AND EXPORT DRUGGISTS AND MANUFACTURING CHEMISTS.

Manufacturers and Suppliers of Pharmaceutical Preparations of all kinds, Drugs, Chemicals, Pills, Tablets, Capsules, Essences, Druggists' Sundries, Surgical Instruments, Hospital Furniture, etc.

MIDDLESEX ST., & COBB ST., LONDON, E.C.

Representatives Abroad: For India, Burma and Ceylon: Mr W. CARR, Bombay. For Straits, Siam, China and the Far East: Mr. P. MARKHAM, Poste Restante, Singapore.

NOW IS THE TIME

TO BUY OR CONTRACT FOR YOUR WINTER REQUIREMENTS.

We can offer Favourable Terms for Spot or Forward Delivery of the following articles—

EUCALYPTUS OIL, CAMPHORATED OIL, COD LIVER OIL, OXYMEL of SQUILLS,

ETC.

And invite your inquiries for same.

C. R. HARKER, STAGG & MORGAN, Ltd.

DEVON WHARF, & BELL WHARF, MILE END, E. 1.





Page

September 4, 1920.

No. 464.

Exclusive and Profitable New Business for the Pharmacist

EVERY pharmacist must be vitally interested in the cultivation of new and profitable business, and in securing such business for himself to the exclusion of outside trades.

The rapidly developing public taste for Manicure provides an unprecedented opportunity for new business. The introduction of "Parex" Manicure Methods gives the pharmacist power to secure manicure business for himself and at the same time ensures liberal profits. The "Parex" Manicure Methods Series embraces every requirement of Modern Manicure. Their quality is irreproachable and they are presented with the utmost taste and refinement. Their low price and attractive appearance makes, initial sales; their superb quality ensures repeat orders.

These repeat orders must come to the pharmacist, because the public cannot purchase "Parex" Manicure Methods elsewhere. "Parex" Manicure Methods are the exclusive property of the retail pharmacist.

By concentrating on "Parex" Manicure Methods you are extending the scope of pharmacy generally. You are furthering the policy of Pharmacy for the Pharmacist.

Here are some of the most popular lines in the series. Compare the percentage of profit and the profit on individual sales with competing lines.

Fixed Selling 12/- per doz. for less than 1 doz.... Price Cuticle Cream 11/3, for I doz. in display carten Cuticle Solvent Nail Polish Paste 1/6 each 10/6 per doz. for not less than 1 gr. " Powder assorted if desired Block Nail Polish Stick: 1-doz. on card, 6/- per doz.; not carded 5/3 per doz.; in gross lots, all carded, 5/6 per doz.; not carded, 4/9 per doz.; 3-doz. carded and 9-doz. 9d. " 9d. " 1-gross in box 5/- per doz.... Bijou Set, 22/6 per doz. in not less than 1-doz.; 21/6 per doz. 3-doz. 20/9 per doz.; 6-doz. 20/- per doz. ... 2/0 ,, d Set. 84/- per doz. ... 10/6 ,, Standard Set, 84/- per doz.

Ask our Representative to show you "Parex" Manicure Methods, or send a Post Card for full particulars.

Telephone:
"City 7"
(Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.L "Eleven Cent, London." For Medicinal and Food Purposes

Specify

Regd., "TWENTY MULE TEAM" Mark

BORAX.B.P.

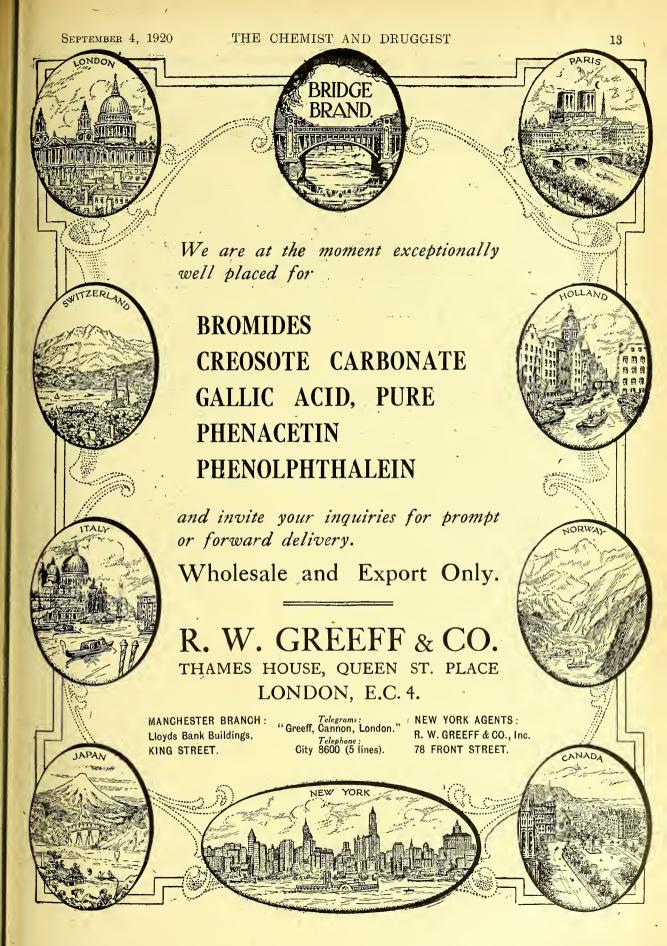
CRYSTAL.

POWDER.

Guaranteed to comply with the requirements of the British Pharmacopæia

BORAX CONSOLIDATED, Ltd., 16 Eastcheap, London, E.C. 3





P., D. & Co. Tablets

in convenient pocket vials.

In response to repeated requests, a number of additions has been made to the P., D. & Co. list of tablets issued in small containers. In the majority of cases these tablets are sold in special screw-capped vest-pocket vials, which are particularly convenient to meet prescriptions for comparatively small quantities, in a form which is most easily carried. Include an assortment in your next order to meet the demand.

Below is a selection which is worthy of careful study.

	(CONTENT	M.R.P.	M.W.P.
Ammoniated Quinine Tincture (C.C.T. 400)		25	1/8	13/6
Ammoniated Quinine Comp. (C C.T. 401)		25	1/7	12/9
Antipyrine (Phenazone) 5-grs. (C.T. 112)		25	1/8	13/6
Aspirin, 5-grs. (C.T. 278)		25	-/10	6/9
Bismuth and Soda (C, T. 260)		25	1/-	7/11
Cascara Sagrada Ext., 2-grs. (C.T. 261 & C.C.)		25	-/91	6/-
Casassa Cassada Eut 2 ann (C T 262)		25	1/-	8/3
Cathartic Compound, Imp. 3-grs. (C.C.T. 409)	25	1/-	7/11
Cough (Army Formula No. 4) (C.T. 565)	• •••	25	1/3	9/9
Digestive, R 'A' (C.T. 66)		30		` 9/-
Digestive, B 'B' (C.C.T. 77)		25	1/2	9/5
Easton Syrup, 1-drachm (C.T. 263)		25	1/4	10/6
Easton Syrup, ½-drachm (C.T. 264)		25	1/-	7/11
Hypophosphites & Quinine Co. (C.T. 28)		25	1/6	12/-
Nucleo-proteid Compound (C.C.T. 479)		50	3/9	30/-
Pepsin, 1-gr. (C.T. 73)		25	$-/10\frac{1}{2}$	6/9
Pepsin, 2-grs. (C.T.238)		25	1/-	7/11
Pepsin, 3 grs. (C.T. 296)		25	1/2	9/5
Pepsin, Lactated, 3-grs. (C.T. 74)		36	1/-	7/3
Pepsin and Bismuth, R_{c} 'A' $(C.T.36)$	• •••	50	2/-	16/2
		50	2/6	20/3
Phenacetin, 5-grs. (C.T. 274)	• •••	25	1/4	10/6
Phenacetin and Caffeine, B. 'B' (C.T. 276)		25	1/6	12/-
Phenolphthalein, 2-grs. (C.T. 467)	6' 699	, 25 °	1/2	9/-
Potassium Chlorate, 5-grs. (C.T. 79)		40	-/10	6/5
Potassium Chlorate and Borax (C.T. 80)	• * • • • • • • • • • • • • • • • • • •	40	-/10	6/5
Rhubarb and Soda (C.T. 98)		25	1/-	7/6 -
Sodium Bicarbonate, 5-grs. (C.T. 100)		40	-/10	6/5
Sodium and Calcium Glycerophosphates with Le	cithin $(C.C.T.4)$		2/-	16/2
Sodium Salicylate, 5-grs. (C.C.T. 139)	• • • • • • • • • • • • • • • • • • • •	25	-/10	6/5
Triple Glycerophosphates with Nuclein (C.C.T.	408)	25	1/8	13/2
Vegetable Laxative (C.T. 564)	• •••	25	1/2	9/-
C.T.—Compressed Tablet.	C.C.T.—Chocolate-	coated Tablet.		

All prices are without engagement, and are subject to change without notice.

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PARKE, DAVIS & CO. 50-54, Beak Street, LONDON, W.1.

Laboratories :: :: Hounslow, Middlesex.

AYRION'S WEELY CARRY

The Quality never varies!

We have reached the pinnacle of perfection in Ayrton's Cod Liver Oil Emulsion, a pure white, palatable and inseparable Emulsion.

Children are the best judges of Cod Liver Oil Emulsion, and they all like Ayrton's with "the cup custard flavour."

The prices quoted below are for this season's manufacture, and are the lowest for "A Perfect Emulsion," vide the *Pharmaceutical Journal*.

Bulk prices-

Guaranteed to contain 331% Pure Cod Liver Oil.

1-4 5-10 11-20 21-50 100 gallons. 13/3 gal. 13/- gal. 12/9 gal. 12/6 gal. 12/- gal.

Guaranteed to contain 25% Pure Cod Liver Oil.

1-4 5-10 11-20 21-50 100 gallons.
10/- gal. 9/9 gal. 9/6 gal. 9/3 gal. 8/9 gal.

May we send you a sample?

Did you receive your copy of our Quarterly Price List?

AYRTON, SAUNDERS & CO. L. LIVERPOOL

"CUTEX"

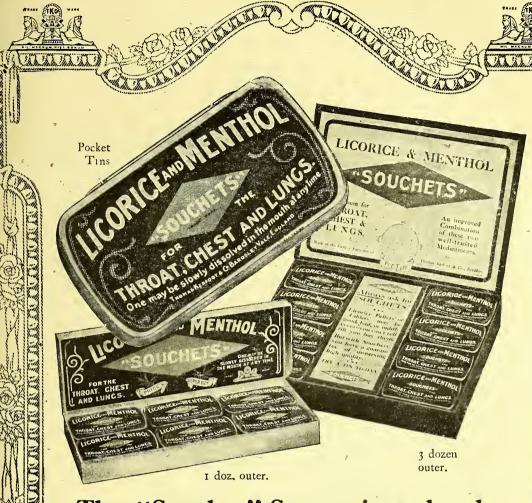
Manicure Preparations

Kindly note the following Reduction in Prices.

No.					Doz.		Each
Ι.	The "Ideal" Cuticle Remo	ver,	small	-	18/-	Retail	2/-
2.	The "Ideal" Cuticle Remo	vėr,	mediu	m	36/-	- ,,	4/-
4.	Nail White	-	<u>-</u>	-	18/-	,,	2/-
5.	Nail Polish Cake, white	-	-	-	18/-	,,	2/-
6.	Nail Polish Cake, pink	-	-	-	18/-	,,	2/-
7.	Nail Polish Cake, trial size	-	-		5/6	,,	$7\frac{1}{2}$ d.
8.	Nail Polish Powder -	-	- 1	-	13/6	- "	1/6
9.	Nail Polishing Paste, pink	-	<u>.</u> -	-	18/-	,,	2/-
IO.	Nail Polishing Paste, plain	-	`-		18/-	,,	2/-
ΪΙ.	Liquid Nail Enamel -	-	-	-	22/6	,,	2/6
I 3.	Cuticle Comfort	-		<u>,-</u>	18/—	,,	2/-
14.	Nail Bleach Powder -	-	-	-	18/—	"	2/-
15.	Nail Rouge	-	-	-	_18/-	,,	2/-
16.	Compact Manicure Set	- ,	-	-	27/-	- ,,	3/-
17.	Travelling Manicure Set		-	-	84/-	,,	9/6
18.	Boudoir Manicure Set	-		-	168/-	· · ,,	19/-
31.	Cold Cream	-	-	_ 1	18/-	,, -	2/-
22.	Nail Polish Stick in Metal	Tub	e	-	13/6	٠,,	1/6

Henry C. Quelch & Co.

4-5 Ludgate Square, E.C. 4



The "Souchet" Season is at hand.

THE "Souchet" red diamond brand covers a range of cushion-shaped Licorice preparations of excellent quality in which Licorice & Menthol is the most popular combination.

The "Souchet" Tin (shown full-size above) has several attractive features—it is of vest pocket thinness, yet its lid is large enough to display a most effective design, the rich red diamond looking particularly striking against the varnished dark green groundwork. "Souchets" are packed in display outers as illustrated to retail at 6d. per tin. Trade price 3/9 per dozen.

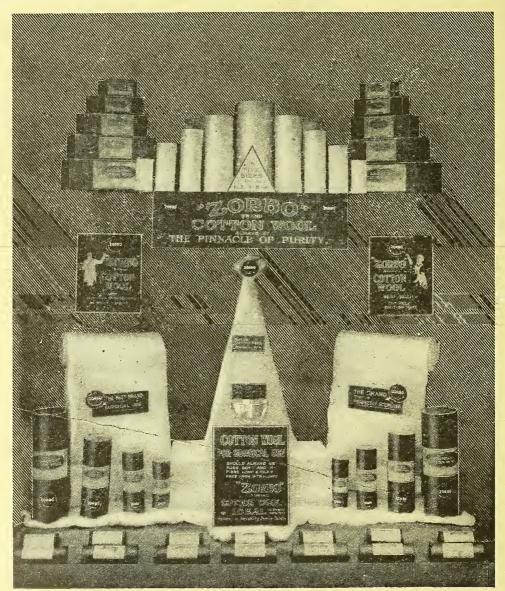
THOMAS KERFOOT & CO LTD BARDSLEY VALE, LANCASHIRE, & Bardsley House, London, N.1 ESTABLISHED 1797.

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The Packing of this Series is Superb, and in consequence only the BEST Quality Wool is used. Displayed with a background of rich red velvet or plush the Series will do credit to your pharmacy.



BLACK PACKETS. Gold Label and Red Seal. 5 sizes. 1 oz. to 1 lb.

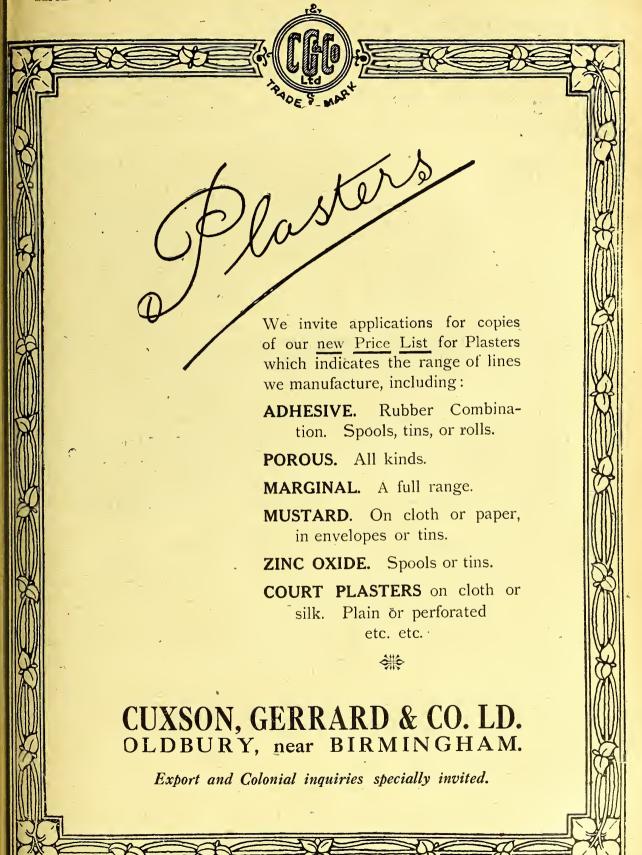
BLACK CARTONS. Gold Label and Red Seal. 5 sizes. 1 oz. to 1 lb.

CUTTER LID TINS. Hermetically sealed, containing Sterilized Wool (superfine quality). Black Wrapped, Gold Label and Red Seal. 4 sizes. 2 oz. to 1 lb.

Prices as already quoted in this Journal or will be sent together with sample on request.

SOLE Manufacturers and Proprietors of "ZORBO" Regd. Brand-

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TERPENELESS BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS: Anise (Anethol)

Bay Bergamot Caraway Cassia Cinnamon Clove

CINNAMIC ALDEHYDE GERANIOL

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Dill Geranium Ginger Juniperberry

Lavender Lemon Limes Mandarin

CITRAL EUCALYPTOL

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Nutmeg Orange Peppermint étitgrain Rosemary - SICILIAN -

LEMON -BERGAMOT ORANGE - MANDARINE.

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The Oils that have a Long Reputation for Quality.

> In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity. In the manufacture of our Terpeneless Oils analysis as to purity.

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ESSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

We have Stocks in London of the most important Essential Oils and Perfumery Products.

and some of the finest original odours extant, for Sachets, &c.

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Wholesale Houses only supplied.

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LEMON, ORANGE (Sweet & Bitter)
BERGAMOT :: MANDARIN

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The Brand that covers only Finest Quality Oils.

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Spinelly Perfume

No. 134, in elegant fancy fluted bottles, fitted with flat frosted stoppers, capacity 2 oz. each in neat box. 84/- doz. Bonus \(\frac{1}{12}\) doz. to the dozen. Selling Price 10/6.

Spinelly Poudre de Riz

5 colours, Naturelle, Blanche, Rachel, Rose, Mauresque.

No. 106, in original and effective square boxes, large size 24/- doz. Selling Price 2/9.

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Display bonus ½ doz. on 3 dozen, assorted.

Spinelly Bath Powder

In handsome hexagonal box, 8-oz, capacity, size $5'' \times 4''$, one colour, only Naturelle, perfumed Spinelly, 27-doz. Bonus $\frac{1}{12}$ doz. to the dozen. Selling Price 3/6.

"Quality" Production All-

they reflect with credit on your business and show a handsome profit.

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In 8 tints, faultless in quality, presentation, and value. Sizes 3/3, 1/9, and

10d. $- less 33\frac{1}{3} \%$

WE CATER FOR ALL CLASSES OF TRADE.

10d. to 67/6 is our range.

Write for Tariffs and Illustrations of our lines for Xmas Trade,

W. H. CALNAN & CO., 30-32 Ludgate Hill, E.C.4

EAU DE COLOGNE ROSINE

In hand-painted bottles in endless variety, \frac{1}{4}-litre 22/6, \frac{1}{2}-litre 36/6, and 1 litre

67/6 - less 33\frac{1}{3}\%





Distilled in France.

ESTABLISHED IN 1695

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Distilled in Paris by a Syndicate of English and French ex-Officers.

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Dental Preparations

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ADIANTINE (Rege) A Herbal Hair Grower 9/6 per doz



DUPORTES BORACIC TALCUM POWDER



BORALIA (Red Dental Wash 15/-per doz



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POUDRE de RIZ CARESSA (Rachelle: White & Pint A delicately perfumed & high class Face Powder 10/6 & 7'- per doz



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ARNAUD'S BLOOM of ROSES 4/-per doz



& AT LVNA STREET GIANCOATS MANO



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HENNA CULT

of Hair Beauty, based on the famous

EVAN-WILLIAMS

ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular iournalism.

It pays to sell this famous line.

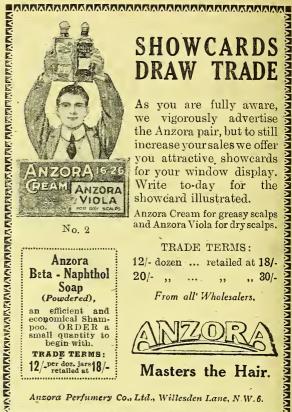
You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request

Be sure to order



Wholesale only: THE EVAN-WILLIAMS CO., LTD. 18 Ogle Street - LONDON, W. 1.

.......................



Anzora Beta - Naphthol Soap (Powdered),

an efficient and economical Sham-poo. ORDER a small quantity to

begin-with. TRADE TERMS: 12/-per doz. jars 18/-

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As you are fully aware, we vigorously advertise the Anzora pair, but to still increase your sales we offer you attractive showcards for your window display. Write to-day for showcard illustrated.

Anzora Cream for greasy scalps and Anzora Viola for dry scalps.

TRADE TERMS:

12/- dozen ... retailed at 18/-20/- ,, ... ,,

From all' Wholesalers.



Masters the Hair.

Anzora Perfumery Co., Ltd., Willesden Lane, N.W.6.

Jackel's Crean



CRYSTALLISED **CREAM**

Trade Mark attached to each bottle.

(without Grease) for THE HAIR

Sold-everywhere

Established 1883.

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"Jackel's Cream" fixes the hair in any desired position; is unexcelled as a dressing and does not soil the headware. It removes Scurf and Dandruff, keeps the scalp healthy, and promotes the natural growth of the hair while maintaining its softness and brilliancy.

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Jackel et Cie (of Paris) Ltd.

> Sauchiehall Street GLASGOW

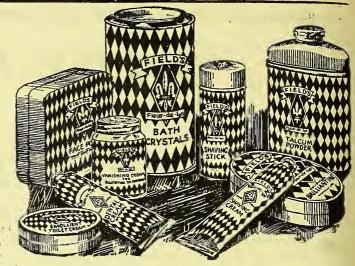
RAYMET & CO., LTD.

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N their presentation to the public, Field's Fieur-de-Lys Toilet Preparations strike an entirely new note. They are daintily packed in containers covered with a very arresting yet dignified design of old gold and black diamonds, that cannot fail to attract the attention of your customers, and convey a very pleasing impression.

These lines are all a lucrative source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

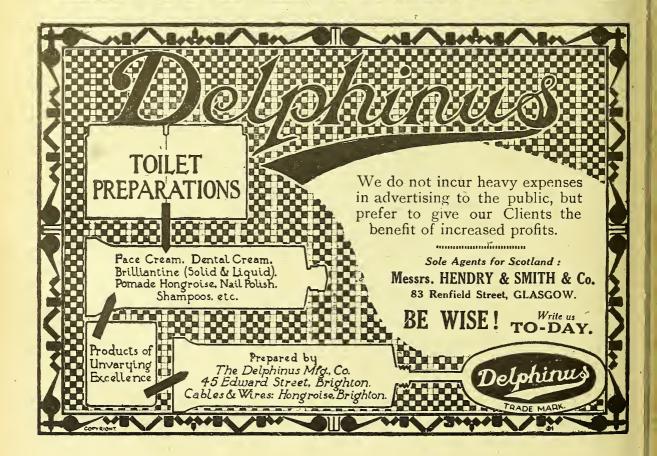
Their quality is backed by our high reputation—nearly 300 years old.



FLEUR-DE-LYS, Toilet Preparations

J. C. & J. Field, Ltd., Upper Marsh, Lambeth, S.E. 1.

Estd. in 1642, in the reign of Charles I.



C. DAMSCHINSKY'S

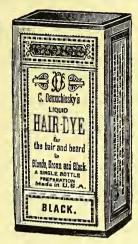
AMERICAN LIQUID DYE.

Single Preparation for the Hair and Beard.

MADE IN
FIVE NATURAL SHADES,
BLONDE, LIGHT BROWN,
BROWN, DARK BROWN,
AND BLACK.

2/- Size 15/- per doz. net.

3/- " 22/- " " "



This excellent Dye has an enormous Sale all over the World.

SIMPLE TO USE.

WILL DYE
RED, GREY OR FADED HAIR
TO THE DESIRED SHADE
IN A FEW MINUTES.
IT IS NOT A BLEACH.
WILL NOT DYE DARK HAIR
LIGHTER.

From all Wholesale Houses or direct from sole British Agents:

OSBORNE, GARRETT & CO., LIMITED,

LONDON, BIRMINGHAM AND GLASGOW.



PROPRIETORS OF

THE CELEBRATED "OGEE" BRAND OF GREASE PAINTS,

OSBORNE, GARRETT & CO., LIMITED, BIRMINGHAM. LONDON, W. GLASGOW.

A. BOURJOIS & Cie, Ltd. 66 CARTER LANE - LONDON, E.C. 4.

Please note that the prices of

Poudre de Riz de Java (Bourjois)

are as under:

2/- size. No. 45
1 doz. - 16/- per doz.
6 ,, - 15/9 ,, 6 ,, - 10/9 ,, ,,
12 ,, - 15/6 ,, 12 ,, - 10/6 ,, ,,

The P.A.T.A prices for Java Powder have been increased to 2/- and 1/3 per box.

May 1, 1920.

No. 495 supplied in the United Kingdom only.

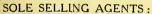


PECKETT'S 1919 Patent

Combined Folding Scissor Penknife, Nail File, Letter Opener.

Deliveries from Stock.
WRITE FOR SAMPLES.

ALSO FROM STOCK— 3½-in. Hand-forged, Bent Nail Scissors - 19/6 dzz.





(SCISSOR SPECIALISTS)

Finsbury Court, Finsbury Pavement, LONDON, E.C. 2.

All High-Class Chemists should stock

ACOSTE

the well-known Liquid Tooth Cleanser for checking pyorrhæa. Retail 3/- and 5/- per bottle.

Also the unrivalled

SAVON DENTAIRE LACOSTE

for cleaning Artificial Teeth Plates.

Retail 2/6 per pot.

Liberal Discount to the Trade.

ATTRACTIVE SHOWCARDS SUPPLIED.

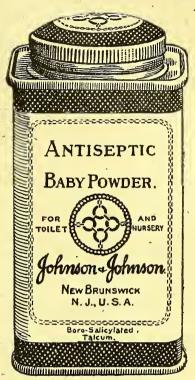
Wholesale and Export:

LACOSTE et CIE,

123a Borough High Street, London, S.E.1.

Telephone: Hop 1789.

SOLD THE WORLD OVER.



Antiseptic TOILET & BABY POWDER

JOHNSON & JOHNSON British - Manufacture.

Made from the Best Talcums and Delicately Perfumed.

Bonus given for order of 2 gross and window display.

For particulars apply to-

JOHN TIMPSON & Co., Ltd. 104 Golden Lane - E.C. 1.

TOILET PREPARATIONS



OF QUALITY

TRY TREVONA TRADE. 器 FOUR RELIABLE

HIGH-CLASS PRODUCTIONS.

ORIGINAL FORMULÆ PUREST INGREDIENTS CHARMING PERFUMES ARTISTIC, PACKING REASONABLE PROFITS EFFICIENT SERVICE.

ATTRACTIVE — DAINTY.

READ THE TERMS.



P.A.T.A. PRICES.

Retail, Wholesale, DOZ, 1/9 -14/-TREVONA Toilet Powder Delightful and antiseptic.

Sprinkler-top tin. TREVONA Dental Powder 1/3 10/-Pleasant antiseptic, cleansing

deodorant, large tin in carton. TREVONA Shampoo Powders 2/3 18/-The Ideal Hair Wash.

TREVONA Floral Bath Powder 2/3 18/-Highly concentrated. Fragrant and refreshing.

DISCOUNT: 5% on 3 doz. assorted. 10% on 6 doz. assorted. MONTHLY A/c: - 21 % Cash Seven Days. CARRIAGE PAID.

PROFIT 70 % ON COST.

TELEPHONE: HOP 5959.

97. Upper Kennington Lane. VAUXHALL, LONDON, S.E.II

TELEGRAMS: OCREVLORC VAUX, LONDON"

A. H. RIISE'S

BAY RUM

The genuine West Indian Bay
Rum. The most delicate tonic
for the hair, the skin, the bath.

Prompt delivery from the
free harbour at Copenhagen,
Denmark, in casks of about
180 litres.

For prices f.o.b. St. Thomas, apply to
A. H. RIISE, ST. THOMAS.

Apply to—

AUGUST FABER & CO.
60 Mark Lane, London, E.C.3.

A. H. RIISE
6 Engtoftevej, Copenhagen.

EASTERN TRADING Co.Ltd. St. Giles, Salisbury.

Importers of Face or Powdered Paper.

Stocked in Rouge, White, Pink and Natural. 96 sheets per ream. Cases of 50 reams.

Rouge, 11/-, other colours 8/- per ream, ex store London.

PERFUMERS! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates, Good workmansh p and prompt delivery. Ingredients supplied if desired at lowest market prices, Writestating requirements.

MARTIN & CO., 71 City Road, Finsbury, London, E.C.1.

PUFFS of ALL KINDS in DOWN and WOOL



SOLID FACE POWDERS COMPLETE WITH PUFFS.

> Inquires invited by makers. F. SCHUTZE & CO., Ltd., BLACK BULL WORKS, Caledonian Market, London, N.7.

The Dye with a Reputation for reliability.

ROYAL

SEVEN SHADES.

1/6 size 12/- doz. 2/6 size 18/- doz. P.A.T.A.

The only dye giving a natural gloss to the hair.

From all wholesalers or direct

J. KNOX-WALKER & Co., Ltd., 422 Kingsland Rd., London E. S.

<u>සිහයයයයයයෙන සහයෙන සහයෙන සහයෙන සහයෙන ස</u>

Desrue-Larene

Toilet Requisites

are stocked by most Chemists in preference to any other, as they show a quick sale and larger profits. If you have not yet tried them, do so, you will not regret it.

Try a Sample Order



DESRUE-LARENE

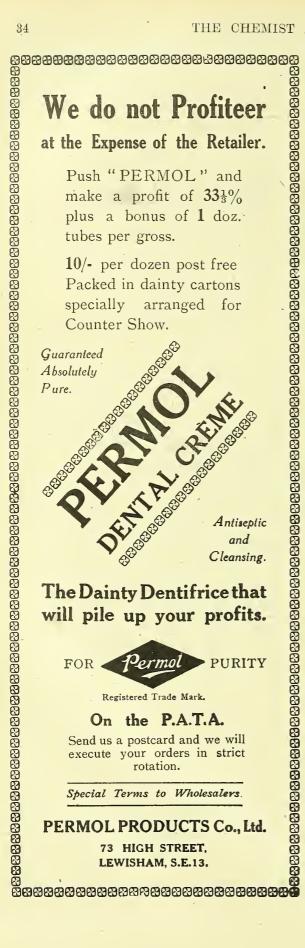
PARIS

No. 1. CRAYONS JAVANAIS. l doz. on card (polishing sticks for the nails) 3/6 No. 2. CRAYONS JAVANAIS, CRAYONS NEPHTYS (evebrow pencils) (Black, Brown, Chatain, Blue):— No. 3. Large Size No. 4. Medium Size 6/-No. 5. Small Size 4/-No. 6. RAISIN SIRIUS À LA VIOLETTE, lip salves, metal cases, 3 colours ... 10/6 No. 7. COMPACT POWDERS (Pink, Ocre, Naturelle, Violet) ... 9/6 No. 8. POUDRE DES ROSES COMPACT (Light & Dark Reds) 9/6 No. 9. KERATOL (enamel for the nails) (enamel and dissolvant. No. 10. KERATOL (enamel only) 18/-No. 12. VARENOL (enamel for the nails) (enamel and dissolvant) No. 13. VARENOL (enamel only) 9/-No. 14. DJEM-KIR, large size (liquid red for the lips) ... 23/6 No. 15. DJEM-KIR, small size (liquid red for the lips) 16/-No. 16. POMADE (Pink and White) 3/6 No. 18. RAISIN NEPHTYS. lip salves. (Red and Scarlet) ...

Sole Agents- J. NASSAN @ CO.

129 Wool Exchange, Basinghall Street, LONDON, E.C. 2.

Telephone: Central 8799.





A NEW SIZE

OF

CALVERT'S Carbolic Ointment

THE 2/3 TIN

has been brought out for the Home market, as the limited supplies of the 2/9 jars are quite inadequate to meet the demand.

To avoid delay and disappointments therefore, chemists are requested to order their supplies in tins (two sizes, 1/3 and 2/3 retail) instead of the 2/9 jars, which are not likely to be available.

Current Price List sent post free on request.

F. C. CALVERT & CO., MANCHESTER

KEENOLIA

MADE UP IN TWO SIZES:

4 oz. retails at 1/3

Attractive Showcards supplied GRATIS.

From all Wholesalers, or direct from Manufacturers.

The . "CASSON BRAND" COLD CREAM

LANOLINE LAVENDER ICE



THE

44a WESTBOURNE GROVE, LONDON, W. 2.

Telephones : Park, 2884 & 3568.

IMPORTANT NOTICE.

The Retail Price of Enolin Tooth Paste & Powder now is PASTE - 1/6 & 10d. per tube. POWDER 1/3 & 7.d. per tin.

YOUR PROFIT INCREASED

Special Cash Allowance for Window Displays.

Write for new terms and particulars of this largely advertised proprietary to "Sales" Department.

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Sole Export Agents :

PATTINSON & MACKIE, Ltd., Albion House, 59 New Oxford St., London, W.C.1

The Perfect Paste with the Pleasant Flavour.



Dental Paste

A Perfect Dentifrice.
Pleasant to the taste.
Profitable to the Retailer.

Retail Price, $7\frac{1}{2}d$. and 1/3.

Window display terms on application.

ANGLODOL, LTD., BERKHAMSTED.

Telephone: BERKHAMSTED 138.

Cables and Telegrams: "ANGLODOL BERKHAMSTED."

DEARRORI

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

		Price per dos. to Retailer.	Selling Price
PILENTA SOAP	-	10/-	1/=
A complexion soap. PROLACTUM -	_	10/-	1/-
For the lips.	_		
PARSIDIUM JEL	LY.	10/-	1/-
ALLACITE of OR	ANGE	22/6	2/6
	OSSOM		* / *
BORANIUM -	-	22/6	2/6
CLEMINITE -	-	22/6	2/6
For a face lotion.		00/0	0/0
COLLIANDUM - For a face tint.	-	22/6	2/6
PERGOL	_ •	22/6	2/6
A deodorant.		00/0	0/0
STALLAX = -	-	22/6	2/6
JETTALINE -	•	31/6	3/6
For clearing the skin.		00/	A /
PHEMINOL - A depilatory.	•	36/-	4/-
MENNALINE -	•	36/-	4/-
For the eyelashes.	7 / 37	24/6	2/6
MERCOLIZED W	/AA	31/6	3/6
STYMOL	•	36/-	4/-
For oily complexions and bl	ackheads	00/0	0/0
BARSYDE = Dandruff eradicator.		22/6	2/6
TAMMALITE -		22/6	2/6
For grey or faded hair.		- 1-	
LIQUID PERGOI		31/6	3/6
To check excessive prespir BICROLIUM -	ation focally	22/6	2/6
For whitening the hands.	_		_, _
HARAPOSA -		22/6	2/6
Nut oil shampoo.			

STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA:

ALL WHOLESALERS, and DEARBORN, Ltd., Grace-House, Clarence Street, Sydney.

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NEW ZEALAND: SHARLAND & (O., Ltd. (Auckland & Wellington)

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To Satisfy your Customers -Is to Increase your Business

LINARIS

TOILET

(1) Give abs. lute satisfaction-Guaranteed

- (2) Are prepared from the finest Drugs obta nable.
- (3) Show splendid profits to the Re-
- (4) Invariably bring repeat orders.

PREPARATIONS (5) Are teautifully packed in Opal-topped Jars and large go'den boxes tied with purple ribbon. Make a splendid counter show.

Profit of over 333 %

LIVARIS Bath Powder LINARIS Henna Shampoo Powder

LINARIS Camomile Shampoo Powder LINARIS Massage Cream

LINARIS Tonic Cream

LINARIS Vanishing Cream

LINARIS Beauty Cream LINARIS Face Powders

Send direct to

LINARIS TOILET PREPARATIONS (Dept. X)

31 Westbourne Crove, London, W.2



Carriage paid on all orders over £5



SALES ALWAYS INCREASING.

Indian Perfume Brick

KEEPS AWAY MOTH. LASTING & FRAGRANT



FOR LINEN CUPBOARD AND WARDROBE. On the P.A.T.A. Retail Price 6d.

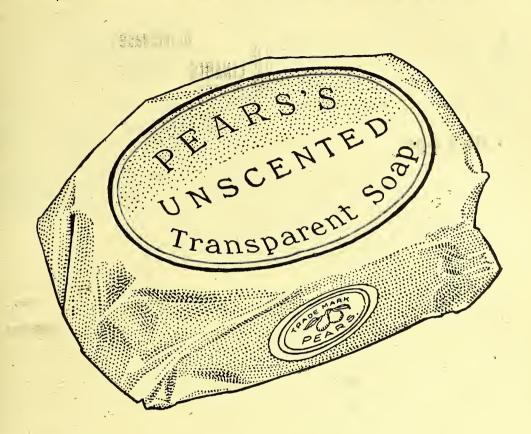
WANDA TOILET PUMMICE. WANDA NAIL POLISH. WANDA ONE-DROP PERFUME.

Of the Makers:

WILLIS, LOW & DRUIFF, LTD.,

33 Percy St., London, W. 1.

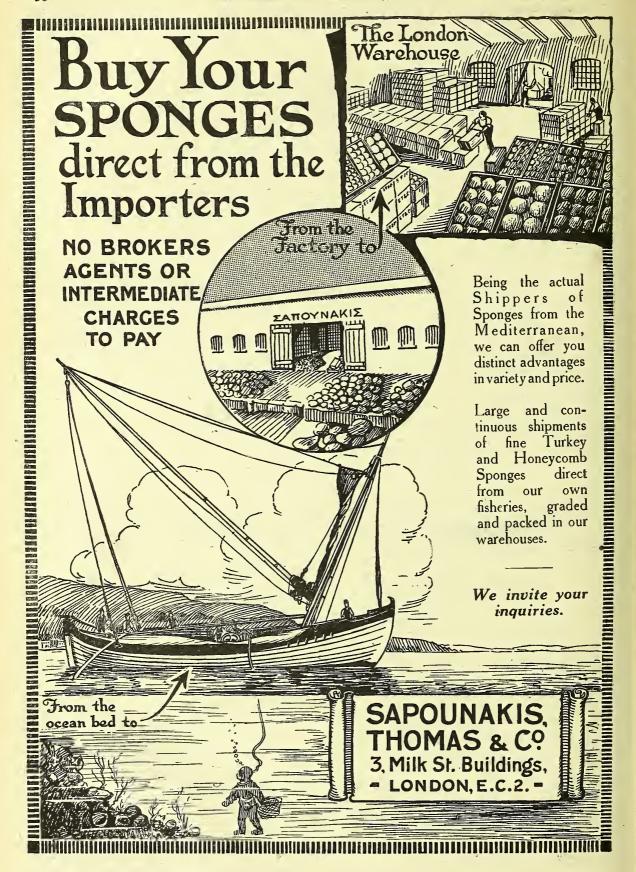
AND ALL WHOLESALERS.



This should be on your list of "Stock Wanted"

See our double-page announcement in last week's issue of the "Chemist and Druggist."





By Royal Appointment



to H.M. Tking George V.

GO TO

COOK'S LONDON

FOR

PURE TOILET SOAPS & DISINFECTANT SPECIALTIES

Makers of the following well-known lines:

- "SOLACE" SHAVING STICK
- "RIVERA" (VICTORY BOUQUET)
 TOILET SOAP
- "CUTANEOUS" MEDICATED SOAP
- "LASSO" SOAP SOAP" SOAP" BISCUIT," for artificial denture
- "COFECTANT" FLUID & POWDER
- "KLONDOL," the clean-working washand-douche of the "LYSOL" class.

COMPLETE PRICE LISTS ON APPLICATION.



Progress

Our business is founded on the principle of good service—the right goods at the right prices. We realise that progress means pleasing our customers. Our growing list of clients is proof that our foundation is right.

We invite Wholesale Buyers and Shippers to send us their inquiries for Combs. We hold a large and varied stock. We are essentially THE COMB HOUSE.



VERNON POWELL, LTD.

The Comb Specialists,

9 & 10 ST. ANDREW'S HILL, E.C.4.

Comet" Vacuum FLASKS

Every flask tested at the works before dispatch.

Mayfair Chemical Co.,

11 Queen Victoria Street, LONDON, E.C.4.

Tel. No.: CITY 3373.

Tel. Add.: "AGENDA, CANNON, LONDON."



CORKS The Best Value in the Trade.

ESTABLISHED 150 YEARS,

Importers & Manufacturers of all classes of Corks USED BY

WHOLESALE CHEMISTS, DRUGGISTS,

Samples & Prices Free on Application. Special Terms for Contracts & Export Orders.

JOHN DEIGHTON & CO. Controctors to 11.M. YORK, ENGLAND

BEWARE!!

ANTHRAX

Is an EVER-PRESENT DANGER!

Be on the safe side and stock

NONE BUT OUR SHAVING BRUSHES

and Camel Hair Pencils.

All Guaranteed FREE of ANTHRAX.

We also stock

COMBS - PUFFS - BAG PUFFS Bone and Ivory NAIL FILES, and all Manicure Requisites and Sets.

Wholesale and Export only Supplied.

A. E. DEPRETER.

24 HOLBORN, LONDON, E.C.1

Phone: Holborn 3182. Grams: "Aedeprelon, Smith, London."

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

EST RITISH RUSHES

Please write for full Particulars to-

75 Farringdon Road, E.C. 1.

CHEMISTS' OVER

We supply protective overalls in any colour or style required. They are made by experienced hands for all branches of the Chemical trade.

KHAKI DRILL

16/9 21/- 26/6

WHITE DRILL

17/6 19/6

BLACK DRILL 19/6

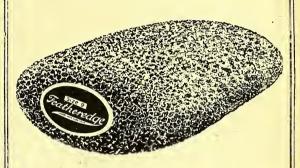
Sizes 34, 36, 38, 40, 42 and 44 inches over waistcoat.
SPECIAL QUOTATIONS FOR QUANTITIES.

GARDINER & CO. (THE SCOTCH) LTD.

1 Commercial Road, E.1. 839. Phone: AVE. 6650 (4 lines). EST. 1839.



RUBBER SPONCES



Are durable and do not harden. When used with soap, they make a delightful lather.

> Obtainable of all Wholesale **Druggists' Sundries Houses**

MARKT & Co., LONDON, LTD.

American Merchants

- SOLE IMPORTERS —

98-100 CLERKENWELL ROAD, LONDON, E.C. 1.

ORDER WINTER LINES

NOW!

("Cartwright Service" Sales Talk No. 6)

A T the time these lines are penned we are faced with the possibility of another trade crisis dependent entirely upon how the coal situation develops.

Need we say that such a crisis would rapidly affect all industries, especially transport. Be prepared and go through your present stock, noting down your winter requirements, which order—NOW.

We would specially remind you of Cough Mixtures, Thermal Wool, Pine Tablets, Nupines and Catarrh Remedies. There is nothing problematical about the sale of these lines. The demand is there for them, but can you supply it?

We shall be delighted to tell you all about our new Winter Window Displays which give you that "pull" in sales you do not obtain by other methods. It is the show-matter that counts—no use at all throwing expensive Parisian Model Gowns in a heap at the bottom of a window, they have to be "staged" in a suitable setting to sell—just the same with your specialties, we tell you how to do it and provide all the "scenery," too.

Take us into your confidence with your winter plans, we can give you some valuable help and suggest many lines that you would find a big sale for. Will you do so to-day?

W.B. Cartwright, Ltd.
Rawdon near Leeds

Australia— 297-299 Castlereagh Street, SYDNEY. 326 Flinders Lane, MELBOURNE.

New Zealand-161 Hereford Street, CHRISTCHURCH Corner Albert and Durham Streets, AUCKLAND.



Efficiency & your Pharmacy.

EFFICIENCY nowadays is practically always dependent upon equipment.

One day, in a walk through our offices and warehouses, thirty devices were noticed for speeding up delivery and cultivating efficient service.

They represent hundreds of pounds invested in the business, and they have paid for themselves over and over again.

In a similar way, it will pay you to see that your pharmacy and your assistants are properly equipped.

Things are a bit quiet now; look round and see what you lack.

Mortars and Pestles, Scoops, Bunsen Burners, Knives, Scissors, Paper Bags, Stopper Extractors, Dusting Brushes, etc. etc.



Mortars and Pestles.

In sizes from 2-oz. upwards. Composition or glass. Double or single for pills, and supplied separately if required.

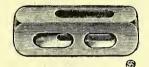
All-metal Palette Knife.

Nickel handle, improved for use as Stopper Loosener, 6-in., per doz. 22/-

Feather Dusting Brushes.

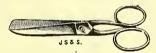
Cocktail feathers, polished handle and leather caps, per doz. 8/9





Hard Wood Stopper Extractors,

For various size stoppers, per doz. 9/-



Sheffield Steel Counter Scissors.

5-in. to 8-in., from **25/-** to **54/-** per doz.

The Chinagraph Pencil.



Illustrated Catalogue Post Free. A most useful pencil for writing prices, etc., on glass and chinaware. Only deliberate rubbing will remove writing, and there are no scratches left as with gummed price tickets.

Black, Blue, Red or Yellow ... per doz. 4/6











Collapsible Metallic Tubes For Artists' Colours, Tooth Pastes, Lanoline, &c.



SPRINKLERS

Perfume Bottles and Hair Washes.

METAL CAPS

Glass Jars and Toilet Preparations.



24 CITY ROAD, FINSBURY SQUARE, LONDON, E.C. 1

ESTABLISHED 1889

SEND FOR

Cotton Wool

White and Coloured

TO

R. LECONTE & CO.

Capping Materials Specialists, 7 & 8 South Street, FINSBURY, LONDON, E.C. 2.

PHONE:

WIRES:

CLERKENWELL 1588. "ETNOCEL, AVE, LONDON."

The SELF-FIXING HERMETIC WASHABLE BOTTLE CAPS Simplest. Strongest. IMMEDIATE DELIVERY. Transparent or Opaque, or Coloured. VISCOSE CO., Ld., BROMLEY, KENT,

Double Your Sale Seidli z Powders

by Stocking

G.O. Extra Seidlitz Powders

(Lemon-Flavoured and Sweetened)

WHOLESALE - 21/- gross packets RETAIL - - 3d. each, P.A.T.A. '5 gross lots less 5 %).

Many Chemists are selling 1/2 to 1 gross weekly.

They are packed in smart envelopes. 6 dozen envelopes in a carton († gross cartons), complete with attractive showcards. Order them direct or through your Wholesale House. Customers ordering 3 gross or upwards direct may have their own name and address printed exclusively on the back of a special envelope.

A trial gross sent post free on receipt of 21/-

The GREENWICH LEMONADE Co.

(J. MILNER, M.P.S., Proprietor)

11 JOHN PENN STREET, LONDON, S.E. 13.

WE MAKE IN ENGLAND

GLASS BOTTLES



WE import from our special works in France and Belgium all kinds suitable for Chemists. Perfumers, Essence Manufecturers and all kindred trades. We are in a position to give prompt deliveries of reasonable quantities in a reasonable time. Prices on application.

STOCKS OF VARIOUS SHAPES & SIZES.

A. Ruch & Co., Ltd.

Geo. G. Forsyth,

28 MARTIN LANE, CANNON STREET, LONDON, E.C. 4.

Telegrams-'Sennock, Cannon, London."

Telephone-Central 4799.

DALE TUBES

THE TUBES THAT STRIKE A FRESH NOTE



Unexcelled Workmanship
Artistic Designs
Superb Finish

WRITE FOR SAMPLE OF ABOVE STOCK DESIGN

THE JOHN DALE
MFG., COY.,
New Southgate,
LONDON, N.II.
TO WHOLESALE & EXPORT ONLY

JOHN BOND'S "CRYSTAL PALACE" MARKING INK

It is
Not Only
The
Best.



But Shows The Most Profit.

6d. size, 4/- per doz., Minimum protected selling price, 5½d. 1/- size, 7/6 per doz., ditto 11d.

MINIMUM ORDER AT WHOLESALE RATES:—One Gross of 6d. size amounting to 42/- or assorted order to same value.

1/- size 77/- per gross. Carriage paid on Parcels of £2 2s. and upwards, subject to the customary discount on quantities. Smaller quantities should be ordered through any of the Wholesale Houses.

When ordering, please specify if HEAT or NON-HEAT is required. A good assured Minimum Profit on this Marking Ink which will always make new customers.

Compare with what you are paying for other makes, and NOTE the difference.

Manufactory: 75 SOUTHGATE ROAD, LONDON, N. 1.

WHITE FLINT BOTTLES

OF ALL DESCRIPTIONS UP TO 8 oz.

IMMEDIATE DELIVERY.

TABLET BOTTLES, VIALS, PANELS, KALIS, TOBINS, WIDE-MOUTH ROUNDS.

Inquiries esteemed for lettered and special-pattern bottles
HERBERT M. LONGCROFT & CO. LTD.
16 Clerkenwell Road, LONDON, E.C.1

SEAMLESS ENEMAS

(Complete in Box)

BRITISH MANUFACTURE.

ASSORTED COLOURS AND FINISH.

PRICES 27/6 PER DOZEN

WILLIAMSON BROTHERS,

54 Lower Thames St., London, E.C.3.

Phone: AVENUE 5827.

Eau de Cologne Corkscrews

FRANK A. CONDUIT, SUTTON HOUSE, 2 OLD STREET, LONDON, E.C. 1. oxdots

A REVOLUTION IN CAPPING

No more fiddling with skins, paper caps and expensive capping materials

CARMA

disposes of them all. Irrespective of size, CARMA CAPPING SOLUTION will cap any bottle, practically without labour. At least a thousand an hour can be done by this method.

CARMA is a solution into which the bottle is dipped and a cap immediately formed, hermetically sealing the bottle.

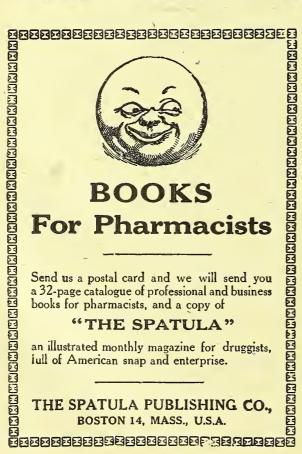
Special manufacturing arrangements enable us to offer CARMA at

25/- per gallon

Cash with order. All orders executed in strict rotation.

THE CARMA CO., 1 Steward Street, E.1.









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We are the Leading Chemists' Printers.



Because—We print the finest Labels, Folding Boxes, all kinds of Envelopes and Advertising Matter of every description.

Because-We turn out high-class goods neatly and quickly.

Because—We are always at your service and are determined to give you satisfaction.

Complete set of Samples sent to the Colonies on receipt of Money Order for 10/6.

ALF. HARRISON & SONS,

Advertising Specialists & Chemists' Printers, 224 Burley Road, LEEDS. Telephone: 26674.

Telegrams: "Ideas Leeds."



WRAPPED SKILLETS **FACILITATE** PACKING.

> SEND FOR SAMPLES AND PRICES.

HEAD OFFICE & WORKS: EXETER.

LONDON OFFICE: 2 & 3, STONECUTTER ST., E.C. 4. "THE CHEMIST AND DRUGGIST

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"Where are they All?"

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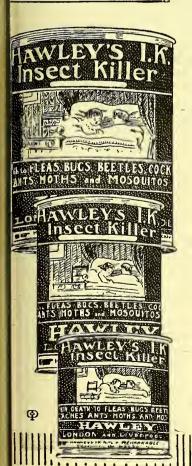
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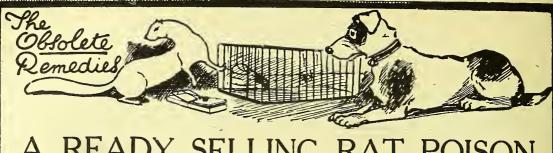
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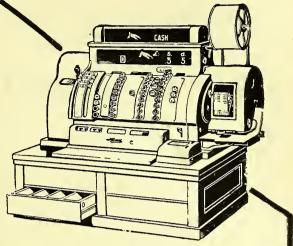
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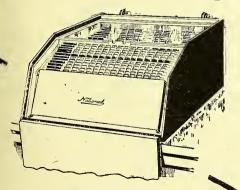
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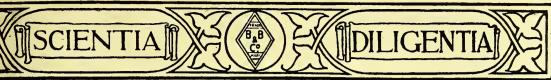




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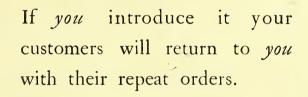
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Known, Admitted, and Approved Remedies.

Following the practice which we started some years ago we propose to reserve space in the forthcoming issue of The Chemist and Druggist Diary, 1921, for the registra-tion of formulas for "known, admitted, and approved remedies." Under the Medicine-Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference. A clear indication must also be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. The Chemist and Druggist Diary was the first book of reference recognised by the Board of, Customs and Excise, after the "British Pharmacopeia," and the Diary, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the *Diary*. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent as promptly as possible within the next few weeks addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

Receipt Stamp Duty.

The stamp duty on receipts for sums of 2l. or more, which has hitherto been 1d., was increased to 2d. on September 1.

Dangerous Drugs Act.

The Home Secretary gives notice that under the Dangerous Drugs Act, 1920, which came into operation on September 1, the import and export of opium, medicinal opium, morphia, diamorphine (heroin), cocaine, and ecgonine are prohibited except under licence of the Secretary of State.

The prohibition extends to the salts of morphine, diamorphine, cocaine, and ecgonine and any preparation, admixture, extract, or other substance containing not less than one-fifth per cent, of morphine or one-tenth per cent, of cocaine, ecgonine, or diamorphine. Applications for licences to import any of these drugs should be addressed to the Under-Secretary of State, Home Office, Whitehall, London, S.W. 1. Applications for licences to export should continue for the present to be addressed to the Board of Trade (Imports and Exports Department), Great George Street, London, S.W. 1. Holders of import licences issued under the Cocaine and Opium (Prohibition of Import) Proclamation, 1918, will be required to apply for new licences under the Act, but the existing licences will be recognised for the present, pending the issue of new licences under the Act.

Notice is also given that on and after September 1 the import and export of raw opium will only be allowed through the ports of London and Liverpool, which are the ports approved by the Board of Customs for the purpose. All packages for export which contain raw opium must be marked in the manner set out in the appended Order. (See C. & D., August 28, p. 49.)

The import, export, manufacture, sale or possession of opium prepared for smoking are absolutely prohibited.

Regulations for controlling the manufacture, sale, possession, and distribution in the United Kingdom of the above-mentioned drugs are being prepared and will be issued shortly. Pending the issue of these regulations, the restrictions on dealings in opium and cocaine, and on the manufacture of cocaine, imposed by Defence of the Realm Regulation 40B, will continue in force.

Copies of the Act are now obtainable, and the full text is printed on p. 71 of this issue.

The Threatened Miners' Strike.

Mr. Max Muspratt, chairman of the United Alkali Co., Ltd., Liverpool, stated on August 31 that fifty thousand men in the chemical industry of this country will necessarily be given notice for the day the coal strike becomes operative. "Ten thousand of our men will have to receive notice," he continued. "The heavy chemical industry is an enormous consumer of fuel, to such an extent that it is impossible to hold reserve stocks. The United Alkali Co. will have to close down within two or three days of the declaration of the coal strike

The National Union of Manufacturers have sent cut circulars to their members asking opinions as to the effect on industry of a strike of coal-miners. The replies indicate that apart from the irreparable financial loss that would be caused, many thousands of workers would be thrown out of employment in the course of a few weeks. The response of the members of the union to the proposition that they should close their works immediately if a strike is declared has been so encouraging that the executive have invited the whole of the affiliated traders to take part in what is practically a ballot on the question:

In view of the gravity of the situation which would be occasioned by a strike, is it your intention to adopt a similar course?

The result will be communicated to the President of the Board of Trade, and if, as is confidently expected, there is an overwhelming majority in favour of this step,

the hands of the Government will be considerably strengthened. The National Union have published some of the replies from their members, these including firms connected with the drug and allied trades.

Alleged Fraud by a Chemist.

At Birmingham, on September 1, Phineas Keats, chemist and druggist, Balsall Heath, who is accused of extensive frauds (C. & D., August 28, p. 50), was again remanded, Mr. Day, for the prosecution, stating that the police inquiries were not yet complete. The warrant, he added, charged the accused with obtaining 4,000l. on July 22 and 1,200l. on August 5 by false pretences from Joseph Davies. It appeared that the two gentlemen who alleged they had been defrauded had included in the total, profits which they expected if certain deals had taken place, and the 50,0007. or 60,0007. mentioned did not represent the actual cash lost. Accused had been financed in business by Mr. Davies, and he appeared to have got into touch with a man who had transactions in Government surplus stores, which he resold. Fascinated by this man's success, prisoner started on the same lines, borrowing money from a Mr. Hirschfield and Mr. Davies for the purpose. Evidence would be submitted that prisoner represented that he was in a position to purchase some hundreds of tons of hyposulphite of soda, and that he had already resold it to certain chemical firms at a substantial profit, a story which Mr. Day suggested had no foundation in fact. Of the money obtained by prisoner 2,000l. was paid to Mr. Hirschfield, who was pressing for the repayment of a loan in connection with another transaction, so that he had been robbing Peter to pay Paul. The balance had been traced to prisoner's own account, his wife's account, and other accounts having no connection with hyposulphite of soda. Keats was remanded for fourteen days, bail being granted, himself in 2,000% and two sureties of 1,000% each.

London Chemists' Retail List.

In commenting on the changes recorded in the September issue of the London Chemists' Retail Price List, the Editor writes:

Editor writes:

It appears contradictory to say there have been no changes this month, when nearly 200 have changed, but the alterations which have been made are not due to the changes in the market but in the rate of pay in the wholesale drugtrade, and the changes indicated show the extent to which they can be passed on to the consumer; the rest, owing to the margin of the ounce and drachm price, are better adjusted to the nearest available coin for exchange. At the same time, attention should be called to the continued fall in citric acid. Gum has gone up, and pastilles aro up from 3d. per lb. from September 1. These cannot be adjusted to any nearer figure than that given in the list, as the margin is too small. Dressings are steady, in spite of the offers which are being made for job lines. Oxygen has advanced 10 per cent., and the price per foot has been put up a halfpenny. The railway rates are all going up, and these will doubtless make a difference for October, Another point must also be made, and that is the change in the Poison Schedule owing to the Dangerous Drugs Act. These points are indicated in the list.

Payment by Hospital Patients.

At a meeting of the Court of Governors of the London Hospital, on September 1, (it was stated that the charge of one guinea a week which is being made to adult patients at the London Hospital, and the payment of 10s. 6d; a week required for children between seven and fourteen, produces about 50l. a day, and it is estimated will benefit the institution to the extent of between 15,000l. and 20,000l. a year. About 10 per cent. of the patients are exempted on the ground of poverty. It is thought possible that, with payments in force, voluntary contributions will diminish. At present it is too early to give any definite opinion on that point, but there are indications that there would not be any serious diminution. Voluntary contributions as well as payment by patients are necessary if the hospital is to keep open. A feature of the position is the willingness on the part of the majority of patients to pay.

Poisonings.

The following cases of fatal poisoning have been recorded since our last report:

At Lowestoft, a woman named Ketless committed

suicide by taking salt of lemon.

At Pontardawe, on August 28, an inquest was held on Elizabeth May Thomas, who had visited her husband in his cell at the police station on August 27, bringing in some food, which both of them ate. Both became ill, and the wife subsequently died. The food contained what is alleged to be perchloride of mercury tablets. Deceased's brother, Thomas Clydach Davies, stated that he had a bottle containing 500 tablets of the poison, from which about forty tablets were missing. His sister visited his home about a fortnight ago. The inquest was adjourned for a post-mortem examination and for the tablets to be analysed.

At Birkenhead, on August 26, an inquest was held on the body of a woman whose death was caused by salvarsan poisoning. The woman had innocently contracted syphilis, and three injections of salvarsan had been given without the apparent harmful effect. Subsequently the woman's husband found her in a comatose condition, and medical examination showed all the signs of narcotic poisoning. The borough analyst stated that nothing in the nature of narcotic poisoning could be found, but the quantity of arsenic in the organs amounted to 1 grain. The jury, in returning their verdict, expressed the opinion that the woman's nervous system was particularly susceptible to the effects of arsenic.

Birmingham.

The high birth-rate has created an increased demand for nursery requisites.

The local chamber of commerce has decided to establish an ex-Service business men's panel.

Several advertisements from lady dispensers requiring posts have appeared in the local Fress of late.

John Tyndall, whose centenary was on August 26, was President of the Midland Institute in 1877.

A "business efficiency" exhibition is to be held in the Bingley Hall from September 9 to September 18.

City traders frequently profit by the small stocks carried by their suburban confreres. Ladies frequently complain of the limited supply of goods found in the latter's businesses.

The son and only child of Mr. T. F. Mason (Glaisyer, Porter & Mason, solicitors to the late Chemists' and Druggists' Trade Association) was killed in a motor accident at Sutton Coldfield recently.

Mr. Geoffrey Freer Thonger, son of Mr. Cyril T. Thonger, managing director of the University Drug Co., Ltd., Bournbrook, was among the successful candidates at the recent Oxford senior examination.

Mr. J. A. Newton Friend, D.Sc., Ph.D., principal of Worcester Technical School, has been appointed to succeed Dr. Slater Price as principal of the chemical department of the Birmingham Municipal Technical School. It is expected that he will commence his duties early in October.

Referring to smoking in night schools, a correspondent writes: In 1697 Worcestershire children were sent to school with pipes, and the schoolmaster called a halt in their studies while they smoked. Boys at Eton were obliged to smoke every morning at the time of the great plague.

Liverpool.

The directors of a well-known drug business are, it is rumoured, contemplating closing down.

Unemployment is steadily spreading, in part owing to labour unrest, which has driven much ship-repairing to other ports.

Mr. W. H. Saunders, in an address to the members of the Liverpool Rotary Club on August 26, gave an interesting account of his recent world tour.

The proposed complimentary dinner to Mr. George Whitfield, Ph.C., prior to his sailing for Ganada and the

United States (C. & D., August 28, p. 50), has been cancelled.

Most of the compositors employed in the wholesale drugtrade in Liverpool and Manchester remained at work when the printers' strike commenced on August 28. One or two firms have been affected.

"Yours to a cinder" is the line above the signature of a cordial letter addressed by a Southport pharmacist to one of his Liverpool confreres. The variant on "Yours truly" anticipatingly smacks of the cremation which the Liverpool City Council has failed to popularise.

Juvenile shopbreakers of both sexes have increased alarmingly of late. At Bootle, recently, seven small boys were birched for a joint offence of this nature. On another recent occasion two boys and a girl combined to steal from a pharmacy. In each case parental indifference was alleged.

Local members of the British Pharmaceutical Conference read with painful surprise of the death of Mr. Werner T. Sivertsen (C. & D., August 28, p. 59). Many made his acquaintance during the Conference week, especially on the Bettws-y-Coed excursion, and learned to respect his personal worth and to esteem his scientific and linguistic attainments. It was hoped to have had him as a lecturer in Liverpool.

Consequent on his reading of the Lesson at the B.P. Conference service in the Cathedral Lady Chapel, Mr. Henry Peet has received from the preacher, the Ven. Archdeacon Spooner, Rector of Walton, an invitation to conduct a Sunday evening service, with address, at the ancient parish church of Walton-on-the-Hill. Owing, however, to a prior engagement as a diocesan lay reader at a neighbouring church, Mr. Peet reluctantly had to decline.

A novel and experimental form of advertising has been inaugurated this week by Ayrton, Saunders & Co., Ltd., at four of the cinematograph theatres in Liverpool. "A New Use for Cocoanut Oil" is the title of a film, 150 feet long, which shows the evolution and efficiency of Ayrton's cocoanut-oil shampoo. The film consists of a series of pictures beginning with the nut, depicting the course of manufacture, and ending with one of a lady with luxuriant hair, beneath which is the inscription; "Of all chemists, 2s. 3d. per bottle."

Sheffield.

Payments to chemists for Insurance work for the month amount to 1,227l, 4s. 4d.

Professor Mellenby has been appointed to the chair of pharmacology at the Sheffield University, and also elected honorary physician at the Royal Infirmary.

The sweet nitre case, which appears on another part of this page, was taken as a warning. Several instances of drugs not being up to the required standard have recently been brought to the notice of the authorities.

Classes for pharmacy, chemistry, botany, and materiamedica at the Central Commercial College and Intermediate Technical School commence shortly. Application should be made between September 6 and September 10.

Mr. J. T. Appleton, chemist and druggist, has been elected vice-chairman of the medical benefit committee of the Insurance Committee, and also given a seat on the finance committee. This is the first time pharmacy has been represented on the latter committee.

Miscellaneous.

POISON-LICENCE APPLICATION.—Daniel Grinsted, Ltd., High Street, Bromley (Kent), have applied for a licence to sell agricultural poisons.

FIRE.—A fire occurred on the premises of Pickles, Ayland & Co., Ltd., manufacturing chemists, Ossett, on August 26. A spark from a furnace was the cause of the outbreak.

Window-smash—On August 30 a runaway pony and trap smashed one of the windows at Parke's Drug Store, The Exchange, Muswell Hill, London, N. Much damage was also done to the stock in the window.

A Burgoyne Outing.—The employés in the packing department of Burgoyne, Burbidges & Co., Ltd., East Ham, held their annual tea and smoking concert at the Anne Boleyn Hotel, Rochford, on August 28. The journey was made by motor. Mr. R. Prance was chairman at the tea-table, when several speeches were given. After a short adjournment the concert programme was carried through. The outing was much enjoyed.

RICE DECONTROLLED.—Rice was decontrolled as from August 30. The Ministry of Food maximum retail price has been 7d. per 1b. for unpolished and 8d. for polished rice, but a fortnight ago the Burma Commission lowered the figure at the source of supply from 48s. 6d. per cwt. landed in London—which had enabled retailers to sell at slightly under the Ministry's maximum—to 36s. 6d. There was, therefore, no possible danger of the retail price going up, so long as the Commission in Burma kept down the export figure.

IN THE COURTS.—At Blackpool, on August 27, a man named Mellor was fined 20s. for selling three boxes of pills after 8 P.M. Mellor told the bench that he thought the sale of medicine was exempt from the provisions of the Act. According to the chief constable the pills were not medicine within the meaning of the Act.—At Westminster Police Court, London, on August 31, Mr. R. L. Sandifer, Victoria Street, was fined 10%, and 10% 108 costs, when charged under the Merchandise Marks Act, 1887, for the misdescription of port wine. Defendant supplied a Fulham retailer with a number of bottles of wine labelled "Lisbon Port." The Anglo-Portuguese commercial treaties, it was explained, safeguard the interests of the port-wine trade in Britain, and since 1916 no wine can be imported into this country without a certificate from the Portuguese authorities that it comes from the Douro district. For the defence it was urged that the Order referred to had come into force whilst the defendant was in the Army, and that the offence had been committed in ignorance.—At Greenwich Police Court, on August 30, Thomas Stopher, described as a ship's steward, was remanded on a charge of "administering and causing to be taken a certain poison or destructive thing," with intent to murder. Evidence was given concerning a green paste found on some sandwiches. This paste accused said he thought was chicken paste. A bottle half-full of rat poison, but no chicken paste, was found at Stopher's house.—At Bow Street Police Court, London, on August 31, a scientific glass-blower named North was fined 2l. for breaking a pane of glass at 10 Downing Street. North is understood to have a grievance against the Government through the latter not giving him facilities to obtain metarials. the latter not giving him facilities to obtain materials for the manufacture of glass tubes.—At Sheffield, recently, George Edward Marriott, general dealer, Corby Street, was charged with selling sweet spirit of nitre deficient in ethyl nitrite. The city analyst stated the spirit would deteriorate if exposed to the light or if contained in a bottle with a faulty stopper. Defendant, who stated he was ignorant of these facts, was discharged on payment of costs.—At the South-Western Police Court, London, on September 1, Daniel Charles Earl, Battersea Park, was fined 10l. on a charge of attempting to prepare methylated spirit for use as a beverage, and a further 51. for being in possession of an illicit still.

The imports of drugs and chemicals into Dominica, West Indies, during 1919 were valued at 2,836l., against 2,004l. in 1918.

An oxygen chamber, for patients requiring treatment in an atmosphere rich in oxygen, is being constructed at Guy's Hospital, London. It is to contain three beds.

A New Disease.—A prisoner at Lichfield, the other day, stated that he had been discharged from the Army as "mentally deficient." When asked how he was mentally deficient, he replied that he had heart failure!

JAPANESE TARIFF INCREASES.—Japan has recently revised her Customs tariff, the general effect of which has been to increase the duties, these including alcohol, alcoholic medicinal preparations, and certain classes of chemicals.

Irish News.

Brevities.

The Nucro Manufacturing Chemists, 140 Peter's Hill, Belfast, have retired from business, the stock being sold by auction last week.

During the disturbances in Belfast last week the plateglass window in the premises of Mr. W. R. Browne, Ph.C., 124 Newtownards Road, was shattered.

Mr. R. Stevenson, Erne Medical Hall, Enmiskillen, announces a salvage sale of his entire stock damaged or soiled by water during the recent fire in the Income Tax offices above his shop.

Among the victims of the disturbances in the Boyle district last week was Mr. N. Harrington, apprentice at Barry's Medical Hall. The raiders gained admittance to the premises by ringing the night bell, and, after using threatening language, ended by cutting off young Harrington's hair with a pair of shears.

A committee meeting of the Dublin and Provincial Retail Drug Association was held in Dublin on August 25, Mr. D. M. Watson, president, in the chair. The following were also present: Messis. G. A. McLean Lee, R. White, R. E. Campbell, W. F. Ellis, A. Owen Wells, John Smith, and Dr. Walsh. Correspondence was received and dealt with from Messrs. M. B. Widdess, (Limerick), F. G. Young (Newbridge), F. J. Fitzpatrick (Dublin), and the Proprietary Articles Trade Association.

On August 28 the employés of Wilson, Jordan & Alexander, Ltd., wholesale druggists, Tomb Street, Belfast, had a charabanc excursion to "The Glens of Antrim" by way of Larne and Cushendall, returning through Ballymena and Antrim. Lunch was taken at Cushendall and tea at Ballymena. The chair at the tea table was taken by Mr. Hume, and a vote of thanks, proposed by Mr. Griffiths, seconded by Mr. Hawthorne, and supported by the chairman and J. Lavery and H. Patterson, was passed thanking the company for their generosity in providing the outing.

Scottish News.

Brevities.

Leven chemists have now adopted shorter Sunday hours—viz., 10 to 11 A.M., 6 to 7 P.M.

In view of the probability of a coal strike, many chemists are now buying heavily to cover winter needs.

Mr. Thomas Hetherington, chemist and druggist, Tillicoultry, has been appointed one of the new Justices of the Peace for the county of Clackmannanshire.

The employés of the two bottleworks in Portobello have been locked out this week owing to an unauthorised holiday taken by the men who wished to join a demonstration of protest against rent increases.

The Leith Insurance Committee has published a notice in the Press urging insured persons entitled to medical benefit to select the doctor whom they wish to attend them at once and not to wait until illness occurs.

Mr. G. R. Thomson, chemist, Elgin (who recently created the new record on the Moray Golf Course), reached the semi-final in the Nairn Golf Tournament last week. His father, Mr. R. Thomson, of "Cod-liver Oil Cream" fame, who is now three-score years and ten, is also a keen golfer and a not infrequent prizewinner in local contests.

A correspondent writes: "Glancing back over the years since the inauguration of the National Insurance Act, chemists must admit that the arrangements in Scotland have greatly improved. There has emerged from the slipshod and chaotic condition of affairs a smoothly working system invariably harmonious, a credit alike to pharmacy and the executive staff, and a boon to the insured patient."

It is improbable, writes a correspondent, that a motorvan service to the Fifeshire coast will be generally adopted by Edinburgh wholesale houses. The congestion at the Forth ferries entails a great waste of time, and as the ferries are owned by the North British Railway Co. it is unlikely that the service will be augmented. The question, as it affects the drug-trade, is at present under consideration, and the view expressed is that a motor service lies more within the province of road transport firms than with wholesale druggists.

Glasgow.

Enteric fever has broken out in Glasgow. The disease has been traced to an ice-cream shop in Ayrshire.

Application forms for exhibitors' space at the Glasgow British Industries Fair. 1921, are now obtainable from the General Manager, Mr. James M. Freer, Kelvin Hall, Glasgow. The Fair, which will be held from February 28 to March 11, includes a chemical section.

The following is the result of the last quoits rink game held on August 31 on Bellahouston Green;

The players in Mr. McDonald's winning rink were C. Finlayson, Jas. Dow, D. G. McKenzie, and Geo McDonald. The prizes, given by Mr. J. T. Simpson, Crown Street, were Waterman fountain-pens.

Floods at Grangemouth.

Considerable damage was caused to property and crops in the town of Grangemouth and surrounding district on August 18 and 19. A correspondent writes: "A heavy rainstorm, lasting for about thirty-six hours, culminated about 6 A.M. on Wednesday (August 18) by the Grange burn, a tidal stream flowing through the centre of the new town, overflowing its banks. Thousands of gallons of water descended on the town and swept over the streets. The drains and sewers were incapable of receiving such a volume of water, with the result that dwelling-houses and shops in several streets were soon under several inches of water. The premises of two of the local chemists suffered rather badly. Mr. Alexander Cochrane, 39 Kerse Road, one of the streets leading to the burn, was unable to approach his premises at the usual opening hour on Wednesday, and the pharmacy had to remain closed. By the evening, with the aid of planks and boxes, he was able to enter and survey the damage. Mr. James Ferrier, 22 Lumley Street, was in even a worse plight. His shop being situated at almost the lowest level in the main street, the water from the higher levels gravitated towards that point, and remained till Thursday afternoon, about 4.30, when the fire-engine was requisitioned to pump the water into another area, where the sewers were running freer. It was then possible to survey the damage, but customers could not be attended to till Friday morning. Considerable damage was done to both stock and fittings. As there was at one period (when high tide was registered in the docks) fully twelve inches of water, extending from front to back of the shop, drawers near the floor swelled, and refused to open, while case-doors suffered in the same manner (in one instance cracking the glass), preventing the contents being got at for removal. Pooks, papers, labels, and stock on the floor suffered in the general wash-out, even the safe and cashbox not proving watertight. While considerable damage was done and great inconvenience created, the incident had also its amusing side. Many staid and substantial citizens attempted to negotiate the watery waste on rafts made of wood and string, piloted by willing and zealous. if inexperienced, urchins. These frail craft generally managed to get waterlogged or came adrift about midstream, with disastrous results to the passenger.' correspondent encloses a photograph which shows the appearance of Lumley Street, in which Mr. James Ferrier's pharmacy is situated. A motor-car is seen ploughing its way through the water, conveying passengers from the Cross to the nearest dry land, about 200 yards further on.

French News.

(From the "C. & D." Paris Correspondent.)

M. Lumière, director of the well-known Lyons, firm, was recently promoted to the grade of Commander of the Legion of Honour.

The "Young Chevaliers."—Among the recent recipients of the red ribbon of the Legion of Honour, we note the names of two very well-known pharmacists, M. Midy, of Paris, and M. Vial, of Lyons, also of M. Dursaut, secretary of the Paris Faculty of Pharmacy.

M. Girardot, whose death is reported, kept open shop at Valence for seventeen years, and had passed some time at the Paris Pasteur Institute before going into business. Mobilised immediately on the outbreak of the war, he did modest but useful service as chief of the laboratory of bacteriological analysis at Romans, manipulating (as M. Reveillet put it in his graveside oration) "the most virulent microbian germs, less impressive, but not less dangerous than shells, bullets, and bombs," to which many pharmacists fell victims during the war.

The Cattle Plague continues to occupy the attention of the French Government and French savants. No effort has been spared to stamp it out, but so far in vain. Twenty-five years have elapsed since a special laboratory was founded at the Alfort Veterinary School for Nocard's researches for a remedy for the "fièvre aphtheuse." This year, when voting the Budget, the Chamber of Deputies allotted a sum of 100,000 frs. to the Institut Pasteur, ear-marked for the same purpose. Cattle plague has invaded Belgium, and serum, obtained from Egypt to combat the plague, has just arrived at Marseilles.

Alsatian Potash.—The French Minister of Agriculture in a notice published in the "Journée Industrielle," reminds persons interested in the purchase of Alsatian potash salts that trade is now free. Orders for potash should be sent either to Mulhouse or to the various representatives to the "Société Commerciale des Potasses d'Alsace." Whereas prior to the war the consumpt on of pure potash in France did not exceed 37,000 tors a year, the mines of Alsace were able to send to France on less than 47,000 tons of pure potash in 1919 and 20,000 tons in the first half of 1920. Many orders which were given some time ago have not yet been delivered, but the Minister of Agriculture has been able to arrange that a sufficient number of trains shall be placed at the disposal of the mines to ensure the delivery of 5,000 to 8,000 tons of pure potash a month. It is therefore presumed that delays in delivery will no longer occur.

Paris Society of Pharmacy.—In view of the summer vacation, the Paris Society of Pharmacy advanced the date of its August meeting by a few days. The vice-chairman, M. Bougault, who presided, announced the death of Professor Armand Gautier, associate-member since 1891. The correspondence included copies of studies effected by the Institutes of Botany and Phurmacy of Buenos Ayres between 1915 and 1919, transmitted by the Faculty of Medical Sciences of that city. M. Bourquelot read M. Bridel's note on emulsin. He had utilised emulsin that since 1914 had remained in contact with methylic alcohol (70°). When the alcohol has been removed the ferment shows all its original activity. M. Bougault remarked that it might be interesting to see if emulsin did not keep better thus than in the powdered form. M. Grimbert presented M. Bailly's note on the action of neutral sulphates of methyl and ethyl on sodium phosphates in aqueous solution. The Society adjourned till October

The Pharmacy at the Invalides.—M. Leclair, who was for a short time mobilised as an army pharmacist at the Invalides during the war, states that the "apothicairerie" founded there in 1674 still exists in the "Alger" corridor, its massive oak door (painted invisible grey when the bombardment of Paris began in 1918) still adorned with the fleur-de-lys. It is a magnificent place, with handsome wood-carving dating from the epoch of the Roi-Soleil, and fitted with shelves and drawers, the latter still bearing

the labels. The doors of the large cupboards are sculptured with emblematical attributes of pharmacy, etc., but the room has for long been used as a library. A pharmacy, however, occupies three rooms, in which the nuns used to compound their medicaments. The pharmacist's office contains a fine cupboard, surmounted by four handsome earthenware pharmacy jars, bearing the three lilies of the Royal French Arms. The same lilies appear on the labels of the more modern jars in the pharmacy itself, for this second room was renovated in 1820. On the frieze are names famous in medicine, etc. The third hall is utilised as a tisanerie (herb-tea-making room), and has a table inscribed "1821. Dussaussois, Etain fin T. 4." Parmentier's research laboratory was opposite this pharmacy. The famous pharmacist's table is said to be now in the Louvre Museum.

The Quinine Centenary.—The recent allusion to the coming centenary of the discovery of quinine (C. & D., June 5, p. 61) suggests an extract from the speech Prof. Grimbert made at the recent "centenary of the Internat." Referring to the first examination of house pharmacists of which we possess a report (1817) he mentioned that the chairman of the jury, the Duc de la Rochefoucauld, advised the new internes to shun the seductions of "theoretical study of transcendent chemistry" which was "foreign to pharmaceutical science." Some of his hearers, M. Grimbert hinted, hardly followed the noble Duke's advice. One, who had passed "first" in the 1816 competitive examination, was Joseph Caventou. The speaker continued: "Still a hospital house pharmacist, in the following year he discovered strychnine in collaboration with Pelletier; in 1819 brucine; in 1820 veratrine; and, finally, in 1821 Pelletier and Caventou made themselves for ever celevated by their discovery of quinine. Caventou was then twenty-six. Need I remind you that Caventou, who died in 1877 at the age of eighty-two, was Professor at the School of Pharmacy and Member of the Academy of Medicine, and that the two collaborators, these two benefactors of humanity, have now their statues in one of our public squares?"

AN OLD-TIME PHARMACIST.—Many British tourists are passing through Amiens during the present holiday season, but how many know that the cathedral contains what must be one of the oldest representations of a pharmacist?



The figure of the apothecary, with his pestle and mortar, forms one of the details of the richly carved oak stalls in the choir. These date from 1508-19, so we may consider this as a portrait of a confrère about the time of the Field of the Cloth of Gold.

Colonial and Foreign News.

ACETYLSALICYLIC ACID REGULATIONS .- The Czecho-Slovak Ministry has issued a decree stating that, in view of the danger to the health of the public caused by the sale of acetylsalicylic acid, and the fact that the stock of this remedy in the country is very short, the decree of October S. 1918, still applies in the new Republic. According to this regulation, not more than three 0.5-gm. powders or tablets may be supplied to any single purchaser, and all doctors and pharmacists have been advised.

PHARMACY IN VENEZUELA.—The issue of the "Gaceta Oficial" July 5 contains a Law lated June 14, dealing with the exercise of pharmacy in the Republic, and super-seding the previous law of June 26, 1915. Under Article 11 of the Law, no medicines may be sold in pharmacies without a signed prescription (except in cases provided by the regulations to be issued under the law or where the medicines are specially licensed by the Oficina Central de Sanidad Nacional for non-therapeutic use). This prevision is, under Article 12, applicable to national or foreign pharmaceutical specialities of fixed formula, even if sold in separate packets or original bottles, in so far as such specialities are not dangerous to health and free sale thereof has been authorised by the National

Sanitary Authority.

RESTRICTIONS ON NARCOTICS IN VENEZUELA.—The Venezuelan "Gaceta Oficial" July 21) publishes a decree containing regulations governing the importation, exportation, and sale in Venezuela of opium and its alkaloids and ci cocaina The import. export. transit. purchase, sale, and use of any kind of prepared crium as defined in the decree and in the International Opium Convention of 1912 is prohibited. Opium and its derivatives, cocaine and its derivatives, and synthetic preparations of any kind destined as substitutes for these substances, may only be imported through certain ports La Guaira. Pnerto Cabello. Maracaibo, and Ciudad Belivar under licence issued by the Director de Sanidad Nacional, and only by chemists, hospitals, and other duly authorised persons or institutions. The regulations also deal with the control of the sale and use of such substances in the Republic, and with the conditions under which they may be exported.

ARGENTINE TRADE.—In an article by M. Ferruccio Verzegnasi, of Buenes Ayres, published in the "Pharmazeutische Post" Vienna), the writer describes the shortage of drugs and pharmaceutical products experinged in the Argenting during the way and inter glid enced in the Argentine during the war, and inter alia, makes the following illuminating remarks: The North Americans made haste to capture the market: they imperced their inferior goods, and assisted their importers by the creation of North American banks, but they never succeeded in effacing the memory of the German chemical market, as immediately after the war Germany was deluged with telegraphic orders, so that many chemical designed with telegraphic contracts for the next two or three years. Chemical products were also imported from Japan. But, probably through ignorance, one firm of importers placed on the market Micium anisatum instead of star arise, with the result that numerous cases of poisoning occurred, of which some thirty or forty ended fatally, and this kept people from purchasing Japanese goods. Prices are very high, and will remain so for many years. He closes his convituuion with the following statement, in the old beastful tution with the following statement, in the old boastful style: "Everybody demands German goods, since the war has thoroughly illustrated, and generally made known, their first-class quality and the impossibility of doing without them. The end of the war has brought a world victory for the German industry, particularly its chemical industry. Everybody now insists upon having German goods only! John Bull, it is true, was victorious on the Aisne, but he was unable to conquer Germany's genius."

PHARMACEUTICAL SPECIALITIES IN THE ARGENTINE.— The regulations concerning the importation and sale of pharmaceutical specialities in the Argentine Republic are modelled on the same principles as those recently introduced in Spain. The importation and the sale of these preparations is only permitted by authorisation of the Board of Health in Buenos Ayres, to which application must be made. The applicant has to fill up a special form, in Spauish, stating the exact composition of the preparation, including any colouring material, excipient, or other nou-remedial agent which may also be present. The amounts are to be given in the metric system. Together with this form, duly filled up, the applicant must hand in: 11 Five packages of the preparation in question, in the form in which it is to be sold. Each preparation is required to bear, prominently printed on the container, its exact composition, with the amounts of each ingredient indicated in the metric system. In addition, the place of manufacture and the manufacturers' name must be stated. (2) One copy of each prospectus, label, wrapper, leatlet, and any other printed matter referring to the preparation, each copy to be signed by the applicant personally. In the printed matter no state-ment may be made which can be regarded as an exaggeration, or is calculated to mislead the public regarding the value and properties of the preparation. It is forbidden to indicate the presence in the preparation of any substance which has not been found on analysis by the offi-cial analyst. The application must be accompanied by a statement regarding the manufacture of the preparation, and that the manufacturer is a qualified pharmacist; this statement must be legalised by an Argentine consul-The application must be accompanied by a sheet of stamped paper of 1 peso. The charges for registration amount to 10 pesos stamp duty, in addition to the cost of the official analysis of the preparation, which is based on a charge of 8 pesos for each active ingredient it contains. Applications for registration of specialities have to be made to the Argentine Board of Health, 981 Calle Sarmiento, Buenos Ayres.

German News.

NEW REGULATION FOR APPRENTICES .- The German Government has decided that, in future, candidates for the pharmaceutical profession must possess the matriculation certificate before entering upon their apprenticeship.

STUDENTS IN GERMANY.—During the summer semester the German universities were attended by about 110.000 students, including 8.250 women. Of this total 952 were students of pharmacy, compared with 1,100 studying pharmacy. macy during the summer of 1914.

THE CHAIR OF CHEMISTRY in the Berlin University, rendered vacant by the death of E. Fischer, will be filled by Prof. Dr. Haber, upon whom one of the Nobel prizes was recently conferred. He will retain his present position of director of the Emperor William Institute for Physical and Electro-Chemistry.

THE GERMAN FOTASH SYNDICATE reports that it has concluded an advantageous contract for the export of potash to the United States. The amount to be exported during the current year has been fixed at the equivalent of 250,000 tons of pure potash, to the value of 5,500,000,000 marks in German currency. The contract provides for a renewal for a number of years.

DESRER MEDICINES .- The almost monotonous regularity with which the cost of chemicals and medicinal preparations is increasing in Germany is now engaging the atten-tion of all interested parties. The "Vorwarts," in a leading article, states that the increased cost of remedies. as well as the acute shortage, is due to the low value of German money, but is further accentuated to an enormous extent by the illicit dealers. Energetic measures to put an end to this abuse, in the interests of suffering humanity, are demanded. The official organ of the German sick clubs predicts that soon the pharmacies will be unable to obtain the necessary remedies, and will be compelled to close, unless the Government steps in. Indeed, the whole question of providing drugs for the members of sick clubs is now an economic problem, for the club funds will not permit charges of 20m, or 25m, for prescriptions which formerly cost about 1.50m, to 3m.

An Act

To Regulate the Importation, Exportation, Manutacture, Sale and Use of Opium and other Dangerous Drugs. 16th August, 1920.

BE it enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:

PART I. RAW OPIUM.

Restriction on Importation of Raw Opium.—1. It shall not be lawful for any person to import or bring into the United Kingdom any raw opium except under licence and into

approved ports.

Restriction on Exportation of Raw Opium.—2. (1) It shall not be lawful for any person to export from the United Kingdom any raw opium except under licence and from approved ports and except in packages marked in the prescribed manner with an indication of the contents thereof.

scribed manner with an indication of the contents thereof.

(2) If at any time the importation of raw opium into a foreign country is prohibited or restricted by the laws of that country, there shall, while that prohibition or restriction is in force, be attached to every licence which is issued by a Secretary of State under this Act authorising the export of raw opium from the United Kingdom, such conditions as appear to him necessary for preventing or restricting, as the case may be, the exportation of raw opium from the United Kingdom such time as the United Kingdom to that country during such time as the or restricted, and any such licences issued before the pro-hibition or restriction came into force shall, if a Secretary of State by order so directs, be deemed to be subject to the like conditions

Power to Regulate the Production of and Dealing in Raw Opium.—3. Provision may be made by regulations for controlling or restricting the production, possession, sale and distribution of raw opium, and in particular, but without prejudice to the generality of the foregoing power, for prohibiting the production, possession, sale or distribution of raw opium except by persons licensed or otherwise authorised in the label?

in that behalf.

PART II. PREPARED OPIUM.

Prohibition of Exportation or Importation of Prepared Opium.—4. It shall not be lawful for any person to import or bring into, or to export from the United Kingdom any prepared opium.

Penalty for Manujacturing, Selling, Using, etc., Prepared Opium.—5. If any person—

(a) manufactures, sells or otherwise deals in prepared opium: or

(b) has in his possession any prepared opium: or
(c) being the occupier of any premises permits those premises to be used for the purpose of the preparation of opium for smoking or the sale or smoking of prepared opium; or
(d) is concerned in the management of any premises used

for any such purpose as aforesaid; or

(e) has in his possession any pipes or other utensils for use in connection with the smoking of opium or any utensils used in connection with the preparation of opium for smoking: or (j) smokes or otherwise uses prepared opium, or frequents

any place used for the purpose of opium smoking:

he shall be guilty of an offence agains; this Act.

PART III.

COCAINE, MORPHINE, ETC.

Restriction on Import and Export of Cocaine, etc .- 6. It shall not be lawful to import or bring into, or to export from, the United Kingdom any drug to which this Part of this Act applies except under licence.

Control of Manufacture and Sale of Cocaine, For the purpose of preventing the improper use of the drugs to which this Part of the Act applies, provision may be made by regulations for controlling the manufacture, sale, possession and distribution of those drugs, and in particular, but without prejudice to the generality of the foregoing power.

(a) prohibiting the manufacture of any drug to which this Part of this Act applies except on premises licensed for the purpose and subject to any conditions specified in the licence; and

(b) prohibiting the manufacture, sale or distribution of any such drug except by persons licensed or otherwise

authorised under the regulations and subject to any condi-

tions specified in the licence or authority; and

(c) regulating the issue by medical practitioners of prescriptions containing any such drug and the dispensing of

any such prescriptions; and
(d) requiring persons engaged in the manufacture, sale or distribution of any such drug to keep such books and jurnish such information either in writing or otherwise as may be prescribed.

prescribed.

(2) The regulations under this section shall provide for authorising any person who lawfully keeps open shop for the retailing of poisons in accordance with the provisions of the Pharmacy Act. 1868, as amended by the Poisons and Pharmacy Act. 1968 (51 & 52 Vict. c. 121. 8 Edw. 7. c. 55—(a) to manufacture at the shop in the ordinary course of his retail business any preparation, admixture, or extract of any drug to which this Part of this Act applies; or (b) to carry on at the shop the business of retailing, dispensing, or compounding any such drug; •

subject to the power of the Secretary of State to withdraw the authorisation in the case of a person who has been con-victed of an offence against this Act or of an offence under the enactments relating to the customs as applied by this Act, and who cannot, in the opinion of the Secretary of State, properly be allowed to carry on the business of manufacturing or selling or distributing, as the case may be, anv such drug:

Provided that the Secretary of State shall, before with-drawing the authorisation in the case of any such person, consult the Council of the Pharmaceutical Society of Great

Britain.

(5) Nothing in any regulations made under this section shall be taken to authorise the sale [of], or the keeping of an shall be taken to authorise the sale [of], or the keeping of an open shop for the retailing, dispensing, or compounding of, poisons by any person who is not qualified in that behalf under, or otherwise than in accordance with, the provisions of the Pharmacy Act, 1863, as amended by the Poisons and Pharmacy Act, 1863, or to be in derogation of the provisions of the Pharmacy Act, 1863, as so amended, for prohibiting, restricting, or regulating the sale of poisons.

Drugs to which Part III. Applies.—3. [1] The drugs to which this Part of this Act applies are morphine, cocaine, and dismorphine commonly known as begoning and

which this Part of this Act applies are morphine, cocaine, ecgonine, and diamorphine commonly known as heroin), and their respective salts, and medicinal optium, and any preparation, admixture, extract, or other substance containing not less than one-fifth per cent, of morphine or one-tenth per cent, of cocaine, ecgonine or diamorphine.

For the purpose of the foregoing provision, the percentage in the case of morphine shall be calculated as in respect of anhydrous morphine.

of anhydrous morphine

of anhydrous morphine.

12 If it appears to His Majesty that any new derivative of morphine or cocaine or of any salts of morphine or cocaine or any other alkaloid of opium or any other drug of whatever kind is or is likely to be productive, if improperly used, of ill effects substantially of the same character or nature as or analogous to those produced by morphine or cocaine. His Majesty may by Order in Council declare that this Part of this Act shall apply to that new derivative or alkaloid or other drug in the same manner as it applies to the drugs mentioned in subsection (1) of this section.

PART IV. GENERAL.

General.

Application of Customs Acts.—9. [1] Articles prchibited to be imported by virtue of this Act shall be deemed to be included among the goods enumerated and described in the table of prohibitions and restrictions inwards contained in section forty-two of the Customs Consolidation Act. 1876 (59 & 40 Vict. c. 56), and the provisions of this Act relating to the prohibition of the export of articles shall have effect as though they were included in that Act, and the provisions of that Act and of any Act amending or extending that Act shall apply accordingly.

(2) If any goods prohibited to be exported by virtue of this Act are exported from the United Kingdom in contravention thereof, or brought to a guay or other place to be shipped for the purpose of being so exported or of being waterborne to be so exported, the exporter or his agent shall be liable under section one hundred and eighty-six of the Customs Consolidation Act, 1876, for illegally importing prohibited goods.

hibited goods.

Powers of Inspection.hibited goods.

Powers of Inspection.—10. If Any constable or other person authorised in that behalf by any general or special order of a Secretary of State shall, for the purposes of the execution of this Act, have power to enter the premises of any person carrying on the business of a producer, manufacturer, seller or distributor of any drugs to which this Act applies, and to demand the production of and to inspect any books relating to dealings in any such firmes and to inspect any stocks of any such drugs.

(2) If any person wilfully delays or obstructs any person in the exercise of his powers under this section or fails to produce or conceals or attempts to conceal any such books or stocks as aforesaid, he shall be guilty of an offence against

Regulations to be laid before Parliament.—11. Every regulation made under this Act shall be laid before each House of Parliament forthwith, and, if an address is presented to His Majesty within twenty-one days on which that House has sat next after any such regulation is laid before it praying that the regulation may be annulled, His Majesty in Council may annul the regulation and it shall thenceforth be void but without prejudice to the validity

of anything previously done thereunder.

Lieenees.—12. Licences or authorities for the purpose of this Act may be issued or granted by a Secretary of State and may be issued or granted on such terms and subject to such conditions (including in the case of a licence the

payment of a feel as the Secretary of State thinks proper.

Offences and Penalties.—13. (1) If any person acts in contravention of or fails to comply with any regulation made under this Act, or acts in contravention of or fails to comply with the conditions of any licence issued or authority granted under or in pursuance of this Act, he shall be guilty

of an offence against this Act.

(2) Any person guilty of an offence against this Act shall be liable on summary conviction to a fine not exceeding two hundred pounds or to imprisonment with or without hard labour for a term not exceeding six months or to both such fine and imprisonment, and in the case of a second or subsequent conviction to a fine not exceeding five hundred pounds, or to imprisonment with or without hard labour for a term not exceeding two years, or to both such fine and imprisonment, and the court dealing with the case may, in addition to any other punishment, order the goods in

in addition to any other punishment, order the goods in respect of which the offence was committed to be forfeited.

(5) Any proceedings for an offence against this Act before a court of summary jurisdiction may, notwithstanding any enactment prescribing the time within which such proceedings may be brought, be brought either within the time so prescribed or within three months from the date on which evidence sufficient in the opinion of a Secretary of State to justify a prospection for the offence come to his State to justify a prosecution for the offence comes to his knowledge, whichever is the longer, and, for the purposes of this subsection, a certificate purporting to be signed by the Secretary of State as to the date on which such evidence as aforesaid comes to his knowledge shall be conclusive

In the application of this subsection to Scotland the Lord Advocate, and in the application of this subsection to Ireland the Attorney-General for Ireland, shall be sub-

Power of Arrest.—14. Any constable may arrest without Power of Arrest.—14. Any constable may arrest without warrant any person who has committed, or attempted to commit, or is reasonably suspected by the constable of having committed or attempted to commit, an offence against this Act, if he has reasonable ground for believing that that person will abscond unless arrested, or if the name and address of that person are unknown to and cannot be ascertained by him.

Interpretation.—15. (1) In this Act, unless the context otherwise requires.—

otherwise requires—
The expression "raw opium" includes powdered or granu-

The expression raw opium includes powdered or granulated opium, but does not include medicinal opium;

The expression "prepared opium" means opium prepared for smoking and includes dross and any other residues remaining after opium has been smoked;

The oxpression "predicinal opium" means raw opium

The expression "medicinal optum" means raw optum which has been artificially dried;
The expression "regulations" means regulations made under this Act by a Secretary of State;
The expression "prescribed" means prescribed by regulations.

lations:

The expression "approved ports" means ports approved by the Commissioners of Customs and Excise for the impor-

by the Commissioners of Customs and Excise for the impor-tation or exportation, as the case may be, of raw opium.

(2) For the purposes of this Act, any article shall be deemed to be imported under licence or exported under licence if the importer or exporter, as the case may be, is the holder of a licence issued under this Act authorising the importation or exportation, as the case may be, of the article and complies with the conditions, if any, of the

licence, but not otherwise.

Application to Ireland.—16. This Act in its application to reland shall have effect subject to the following modifica-

tions; namely,

(a) A reference to the Poisons (Ireland) Act, 1870 (33 & 54 Vict. c. 26), the Pharmacy (Ireland) Act, 1875 (38 & 39 Vict. c. 57), and the Pharmacy (Ireland) Act, 1875 (Amendment), Act, 1899 (53 & 54 Vict. c. 48), shall be substituted for any reference to the Pharmacy Act, 1868;

A reference to the Pharmaceutical Society of Ireland shall be substituted for the reference to the Pharmaceutical

Society of Great Britain.

Short Title and Commencement.—17. (1) This Act may be cited as the Dangerous Drugs Act, 1920.

(2) This Act shall come into operation on the first day of September, nineteen hundred and twenty.

Destroying House-flies.

THE British Museum has just published at 3d. a useful pamph'et entitled "The House fly as a Danger to Health; its Life-history and How to Deal with it." The work, which is authoritative, gives the following methods of destroying house-flies : ,

For ordinary household purposes these include the use of traps, sticky flyrapers ("tanglefoot"), fly-poisons, spraying fluids, and "fly-killers."

The glass bell-trap (baited with a mixture of sugar and beer) and the "fly-balloon" of wire-gauze (baited with anything attracting flies at the time, or with a paste made of equal parts of sugar and cheese, moistened with water) are both efficient, and are too well known to need description. To kill flies in a balloon trap the latter should be placed for a minute or so in a bot oven. placed for a minute or so in a hot oven.

For use during the day sticky flypapers in the form of sheets are generally preferable to narrow strips, and are said to be most effective when curved into the shape of an arch. Tanglefoot mixture, for coating sheets of glazed paper, or lengths of stout wire for suspension, can be made by weighing out five parts of castor oil and eight parts of powdered resip, and heating the two together (without boil). powdered resin, and heating the two together (without boiling) until the resin is entirely dissolved. The mixture, which may be kept indefinitely in a closed tin, should be applied as thinly as possible while hot, or after being

which may be kept indefinitely in a closed tin, should be applied as thinly as possible while hot, or after being heated, to the surfaces to be coated.

A very effective fly-poison can be made by mixing two teaspoonfuls of commercial (40 per cent.) formalin and two heaped tablespoonfuls of sugar, with lime-water to make up one pint. One or two layers of blotting-paper, or pads of cotton-wool, damped with this fluid, may be exposed in soup-plates; or the liquid may be placed in closed tins with perforated lids, through which are passed wicks, having their lower ends dipping into the fluid. Formalin mixture generally works best in the early morning, but whenever used care must be taken to ensure that no other sources of fluid refreshment are accessible to the intended victims. Since formalin is poisonous to human beings the mixture must be used with caution and due safeguards against interference by children. Another fly-poison is prepared as follows: Dissolve three teaspoonfuls of powdered sodium salicylate in a pint of water, and nearly fill a tumbler with the solution; over the tumbler place a circular piece of blotting-paper somewhat larger in diameter, and over this an inverted saucer. Turn the whole device upside down, and insert a match under the edge of the tumbler to permit the access of air. The blotting-paper, upon which a little sugar should be sprinkled, will keep moist until the liquid is exhausted. In a closed room fresh pyrethrum-powder, distributed by being shaken from a little muslin bag until the air becomes distinctly foggy, will poison all imprisoned flies. Though not harmful to man, this powder is somewhat irritating to the nose and throat when inhaled. Another method of using pyrethrum-powder is to bring a candle flame into contact with the under side of the lid of a tin upon which a small quantity of the powder is leaped; the finnes thus produced stupefy flies unable to escape, and the insects after falling to the ground can be swept up and destroyed.

Various spraying fluids for the destr

be swept up and destroyed.

Various spraying fluids for the destruction of house-flies are obtainable from chemists and stores. These fluids, which generally consist essentially of extract of pyrethrum-powder, have to be diluted with water before being used in a sprayer, and are not effective against flies unless the insects are thoroughly wetted.

A SERIOUS FIRE took place recently at the electrolytic chlorate of notash works of Doctor Rossi at Legnano, near Milan, resulting in damage estimated at 500,000 lire.

NOT AN "ENTENTE" CORDIAL.—He was very fond of NOT AN "ENTENTE" CORDIAL.—He was very fond of airing his slight knowledge of French. On leaving his friend one evening he said, "Au revoir!" "What do you mean?" "I mean good-bye—'au revoir' is goodbye in the French language." "Oh, I see; well, carbolic acid to you." "What does that mean?" "That means good-bye in any language," said his friend.

The Profiteering Act.

Board of Trade's View.

BERMONDSEY Profiteering Committee appealed to the Board of Trade to modify the circular letter of January 12 (P.A.D. 25), which defines the duties and functions of inspectors appointed by the local committees under the Profiteering Act. The Controller of the Board of Trade in c. of the Profiteering Act Department had an interview th Judge Snagge, the chairman of the London Appeal Qunal, and with Mr. J. H. Wilson, clerk to the Berary sey Profiteering Committee, on the matter. As a reces of the interview the Board of Trade has written to the sermondsey Profiteering Committee stating that the sard is of opinion that the views expressed in the circular letter should be adhered to, on the ground that if an inspector was permitted to lodge complaints with the local committee which appointed him, the committee would be in the anomalous position of being both judge and prosecutor in the same case. Furthermore, it was probable that any application to the High Courts to restrain or quash the proceedings on the ground of bias would be successful. It was open to the local committee to investigate under Section 1 (1) (a) of the Profiteering Act, 1919, any complaints made by their own inspector, and on such investigation the local committee may, if the circumstances so require, institute proceedings against a seller in a Court of Summary Jurisdiction. The committee had exactly the same powers which it possessed when dealing with an offer for sale as opposed to a sale. powers of an inspector as laid down in the circular letter P.A.D. 25 were identical with the powers of an inspector under the Food and Drugs Acts, who reported to the local authority which appointed him, and the authority, if satisfied that proceedings should be taken, instituted the necessary proceedings in a Court of Summary Jurisdiction. The Board was therefore unable to accede to the request to modify the circular letter, more especially having regard to the fact that any opinion expressed by the Board of Trade would not in any way influence a court of law in the event of proceedings of a local committee being challenged on the ground of bias. The clerk added that he pointed out to the Controller of the Board of Trade that a committee could not have any more bias than the magistrates, who were inflicting fines to be paid to the Metropolitan Police Fund, out of which their salaries were If a committee adopted the usual course, as they had been doing, and decided that a tradesman should refund a certain sum and also be prosecuted, he could make an appeal to the Appeal Tribunal, and then possibly the police court proceedings might be dropped; but under the procedure of the Board of Trade the trader had no right to an appeal to the Central Tribunal, but must be dealt with straight away in a court of law, if the committee so decided.

Complaint.

Chester.—At a sitting of the Chester Profiteering Committee, on August 20, Mr. Donald, chemist and druggist, was the respondent in a complaint of having sold $1\frac{1}{4}$ pints of lime-water for 1^s . The bottle was supplied by complainant, who said that other chemists in the city charged only 3d, per pint for lime-water. Mr. Donald contended that he did not see complainant when he bought the lime-water, nor did he see the bottle. He was upstairs and his son told him the quantity was about a quart. In 1909 he charged 3d, per pint, and at the present time 6d. Being told the quantity was a quart he charged 1^s , when it should have been $7\frac{1}{2}d$. The mistake was found out after complainant left the shop, and when complainant returned he accepted the explanation. Complainant denied that he accepted the explanation. After deliberation in private, the Committee considered the profit unreasonable, and ordered a refund of $4\frac{1}{2}d$. In view of all the circumstances they did not recommend further proceedings.

Legal Reports.

Sale of Food and Drugs Acts,-At Salford, on August 25, Boots, Ltd., chemists, Eccles New Road, were summoned for supplying a mixture 26 per cent. deficient in potassium bromide. Evidence for the prosecution showed that on June 29 a prescription was sent to Messrs. Boots' shop, and on being called for was divided in the usual manner, one portion being sent to the borough analyst. On July 14 the analyst certified the mixture as 26 per cent. deficient in potassium bromide. Sir William Cobbett, who appeared for the defence, said that following the conference between the food authorities and the local chemists it was now recognised that an exact percentage could not be ascertained, and that was why the margin of 10 per cent. was allowed (C. & D., July 24, p. 93). The practice at the shop seemed to be to make up a stock bottle, not of the mixture as it would ultimately be served out to customers, but one diluted to a less extent, and at the time of sale a further dilution took place. In one of the two processes there had been some carelessness, for the customer did not receive the quantity of potassium bromide he paid for. A fine of 31. 38. was imposed.

Reviews of Books.

Les Colloides. By J. Duclaux, Chief of Laboratory in the Pasteur Institute. 7 × 4½ in. Pp. 288. (Paris: Gauthier-Villars et Cie., 55 Quai des Grands-Augustins.)

The author's numerous valuable contributions to the study of colloids during the past sixteen years qualify him to speak with authority on this subject, and within the compass of this small work the author has succeeded in presenting a wealth of information on colloids in a highly interesting form. To those conversant with French, it can be recommended as a useful work of reference on this subject, as not only the nature and mode of preparation of colloids are discussed, but also their rôle in nature and their practical applications. While the theoretical side of the subject receives full recognition, the practical importance of colloids is of particular interest. The author deals with the latter in several chapters, two of which are devoted to a consideration of the phenomenon of adsorp-tion, in which he discusses its rôle in the process of dyeing tissues, and also in various biological processes. refers to lead and mercurial poisoning, adducing the case of the British vessel *The Triumph* in 1810, when 200 of the crew showed all the signs of mercurial poisoning three weeks after an accident causing the escape of a quantity of mercury from the barrels and bladders in which it was contained among the cargo. Another example adduced is the high content of zinc, which increases in direct proportion with its activity, present in the venom of snakes, and which can only be explained by its being adsorbed from the animals forming the snake's food, and which represents a specific phenomenon, since iron, which is certainly more common than zinc, is not concentrated in the venom. The part played by colloids in the living organism and their influence on osmotic pressure and coagulation are also discussed. The closing chapter is devoted to the methods in use for the study of colloids; a very useful list of publications on the subject further enhances the value of the work to those desirous of probing more deeply into this fascinating

Australian merchants are finding a ready market in the United States for eucalyptus oil, unrefined platinum, and sheep-dip.—" The Times Trade Supplement."

EARLY-CLOSING ORDER.—Barrow-in-Furness Council has just given notice of intention to make a general closing order, under the Shops Act, 1912, for all except statutorily exempted trades. The closing hours are 8 p.m. Saturdays and 7 p.m. other days. The usual special provisions are made in respect of public holiday periods.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

MARRIS & MORTON, LTD. (P.C.).—Capital, 2,0001. Objects: To carry on the business of chemists, druggists, drysalters, oil and colour men, etc. The first directors are: H. C. Morton, G. English, C. R. Morton, and F. Moore. Solicitor: H. Bedford, 30 Bank Street, Sheffield.

Hamoes, Ltd. (P.C.).—Capital, 3,000l. Objects: To manufacture and deal in the proprietary toilet article "Hamoes," etc. The subscribers (each with one share) are: C. Cherly, 49 Vimmelskaftet, Copenhagen, chemical manufacturer, C. G. L. McCandlish, 3 Raymond Buildings, Gray's Inn, W.C. 1, solicitor. R.O.: 67 Welbeck Street, London, W.

CUMULIGHT, LTD. (P.C.).—Capital, 1,0007. Objects: To acquire the rights in an invention known as "Cumulight," to manufacture all kinds of photographic apparatus, chemicals and emulsions, etc. The first directors are: J. R. Craig and E. Judge. R.O.: 10 Warwick Court, Holborn, London, E.C.

British Pluviusin Co. (1920), Ltd. (F.C.).—Capital, 1,250,000l. Objects: To enter into an agreement with Explosives Trades, Ltd., and to carry on the business of waterproofers, manufacturers of imitation leather, hospital sheetings, surgical bandages, waterproof cleth, mackintoshes, etc. R.O.: 12 Newton Street, Manchester.

Perfectum Lens and Prism Co., Ltd. (P.C.).—Capital, 2,000l. Objects: To take over the business of a manufacturing scientific optician carried on by H. C. Raxworthy at 1a Adelaide Road, Chalk Farm, London, and to carry on the business of manufacturers of and dealers in periscopic lenses and prisms, photographic lenses, etc. R.O.: Broadway House, Adelaide Road, Chalk Farm, London, N.W. 3.

UNITED KINGDOM OIL Co., LTD. (P.C.).—Capital, 12,500l. Objects: To acquire (a) British patents granted to G. F. Forwood and J. G. Taplay for the improved treatment by conversion of hydrocarbons of high boiling-points into hydrocarbons of low boiling-points, and the conversion of unsaturated hydrocarbons into other compounds; (b) the patent rights already granted for the U.S.A., France and India; and (c) the right to take patents in respect of such process for the whole world. The first directors are: G. F. Forwood, T. Needham, A. Slater, E. Colson, and J. W. Bell. R.O.: Mark Lane Station Buildings, London, E.C.

B. LAPORTE, LTD.—The report for the year ended June 30, 1920, states that after transferring to reserve a sum representing the usual 10 per cent. of profits adjusted for proportions of excess profits duty, and after charging depreciation, directors' fees, etc., there is a profit balance amounting to 14,205l. The total profit balance amounting to 14,205l. balance available, after payment of preference divi-dends, including 2,376l. brought forward, amounts to 13,159l. It is proposed to allocate to dividends on ordinary shares at the rate of 22½ per cent. per annum, less tax, 8,1561.; to carry forward, subject to excess profits duty, 1919-20, and directors' remuneration, 5,003/. During the past year considerable sums have been expended on new works, buildings, and plant at Luton and Bradford, amounting to 48,7371., and the prospects of output and trading results for the coming year are, the report states, very satisfactory. The increasing volume of turnover also demands additional capital, and the directors have decided to make a further issue of ordinary and preference shares, which will be offered to the existing shareholders at an early date.

Lysle Export and Import Co., Ltd.—Pursuant to section 188 of the Companies (Consolidation) Act, 1908, a meeting of the creditors of this company was held on August 19 at the offices of Mr. C. S. Denham, C.A., 21 Bedford Row, London, W.C. The solicitor representing the liquidator

said that the position so far as the creditors were concerned is a very unfortunate one, and it seemed as though they could not hope to get anything out of the liquidation. At present there was no receiver appointed on behalf of the debenture-holders. Mr. Denham stated that the assets of the business comprised the lease of the premises, which might be taken as worth perhaps 400l.; furniture, fixtures, and fittings valued in the books at 979l., but which were likely to realise only 200l.; stock-in-trade at cost valued at 2,091l.; debts 561l., but of which about 265l. were bad. There was also the it m of 825l. which was debited to Mr. De Lysle's at t. The assets totalled 2,365l., or 2,114l. after allow for certain preferential claims. With regard to the littles there were debentures for 5,000/., or 5,208/... uding interest. These debentures constituted a challenger of the whole of the property of the company. The was, therefore, a deficiency on the debentures of 3. As the trade creditors amounted to 7,889l. it was believed that they could not hope for any dividend, the L ficiency so far as they were concerned being nearly 11,000%. From a rough examination of the books it would appear that from the commencement of the company to August 4 total losses had been made of 5,967l. The company was registered on December 1, 1919, as a private company with a capital of 20,000l., divided into 20.000 shares of 1l. each. The company was formed to acquire and carry on the business of export and import merchants and manufacturers carried on by Mr. John De Lysle at Hatton Garden, and the vendor was Mr. De Lysle himself, who in the arrangements that were made was allotted 10,000 fully-paid shares in the company. Various sums were put up for shares, but Mr. De Lysle-himself only found 2l. The position of the company was brought about by reason of the bankruptcy proceedings which had recently been instituted against Mr. De Lysle.

ITALIAN CHEMICAL DIVIDENDS AND NEW COMPANIES.—Paganini Villani e C., drug and chemical merchants. have amalgamated with the firm of Ercole Campagnoli e C., bringing the capital to 250,000 lire.—Farmochimica Cutolo-Clabuzzi, of Naples, has decided to increase its capital from 500,000 lire to 1,000,000 lire through the emission of 5,000 new shares of 100 lire.—The firm of Ossidi Metallici, Milano, for the industry and commerce of metallic oxides, has increased its capital from 275,000 lire to 700.000 lire through the emission of 4,250 shares of 100 lire.—For the production and sale of clive oil the company of Unione Productori in Olio has been formed, with its headquarters at Corato. capital of this new firm is 200,000 lire.—With a capital of 1,000,000 lire the company of Società Industria Detersivi Dott. Matteucci, Rubini e C., in Milan, has been formed for the production of soaps and chemicals.—At Bologua Guermani e C. has been formed, with a capital of 105,000 lire, for trading in drugs and other products.—
At Racconigi near Saluzzo, the Istituto chimico farmaccutico Dottor Maritano, with a capital of 30,000 lire, for dealing in chemicals and pharmaceutical specialities, has been founded.—At Saronno, near Busto Arsizio, the firm of Ditta Filippo Reina has been established, with a capital of 1,000,000 lire, for the manufacture of soaps, drugs, etc.—The firm "Società Anonima Dottor M. Treves" was established at Turin, with a capital of 1,500,000 lire, for manufacturing perfumes, powders, and other toilet and hygienic preparations.—With a capital of 100.000 lire the firm of Successori Rinaldi e Pizio in Turin, for trading in drugs, has been formed.—At Padova, near Venice, the firm of Achille Baseggio e figlio has commenced business with a capital of 400,000 lire for the commerce and grinding of drugs. This firm will have its headquarters in Via Nicolò Tommaseo 64-66.—At Palermo in Sicily the firm of Società Anonima La Mannite has been constituted, with a capital of 1,000,000 lire, for manufacturing manuite.—At Treviso the firm of Rosada e Perrucchini, with a capital of 225,000 lire, has been formed to trade in drugs and other products.—At Viesti the company of Società Anonima Adria, with a capital of 100,000 lire, has commenced business in pharmaceutical products.

The British Association for the Advancement of Science.

We referred last week (p. 63) to the points touched upon in the address of the President of the British Association at the Cardiff meeting. This week we give abstracts of some of the addresses of the sectional Presidents.

Intensive Cultivation.

Professor F. Keeble, F.R.S., President of the Agricultural section, who was Controller of Horticulture during the war, took for the subject of his address intensive cultivation. During the war many cultivators previously engaged in flower-growing or luxury crops converted their land and glass-houses to the production of food. The florists and nurserymen naturally applied methods of intensive cultivation acquired in the competitive businesses of flower production to food crops. A case is given where an onion crop of 17 tons per acre was obtained by a chrysanthenum-grower. The average yield of onions is something less than 5 tons to the acre. The yield of potatoes under farm conditions in England and Wales averages 6 tons per acre, while Army gardeners in France obtained crops of 14 tons to the acre. In regard to the potato crop, Professor Keeble claimed that the million and the contract of the potato crop. claimed that the million and three-quarter tons increase in 1917 and 1918 of potatoes was mainly due to the credit of the intensive cultivator. He holds that there is much need of educational efforts among cultivators and others who are often unaware of the principles that should guide them in spraying potatoes or employing arsenate of lead as a spray for fruit trees. This can only be carried out when the full co-operation and confidence of officials and cultivators has been obtained. The directing head of an organisation for this purpose should be a man of wide practical knowledge, who should be assisted by a person versed in departmental and interdepartmental intricacies. Usually these qualifications are reversed in Government Departments. "To the technically initiated initiation is easy and attractive; to the unitiated it is difficult and repugnant." Dealing with the increase in the consumption of such accessory foodstuffs as jam and tomatoes, it was pointed out that the public had by instinct found out what physiologists discovered recently that a monotonous diet means malnutrition. It is also an interesting fact that the public has always shown a wise greediness for onions as an accessory food, which, although relatively poor in calories, is rich in vitamines. Nelson, it appears, appreciated this fact, and always kept his sailors well provided with onions. The lecturer concluded that as a population increases so does the intensity of its cultivation. Whether the man of average ability and industry can achieve success depends upon education -he can look for no assistance in the form of restricted imports.

The Subject of Heredity.

The Botanical section was presided over by Miss E. R. Saunders, who took heredity for the subject of her address. This began with a brief historical survey of the steps by which we have advanced to the present state of our knowledge of heredity. The earliest attempts to frame the observed facts of inheritance were those of Galton and Pearson. Galton's observations led him to formulate two principles which he believed to be capable of general application—the Law of Ancestral Heredity and the Law of Regression. The Law of Ancestral Heredity was intended to furnish a general expression for the sum of the heritage handed on in any generation to the succeeding offspring. Superposed upon the working of this law were the effects of the Law of Regression, in which the average deviation from the mean of a whole population of any fraternal group within that population was expressed in terms of the average deviation of the parents. These expressions represent statements of averages which, in so far as they apply, hold only when large numbers are totalled together. They afford no means of certain prediction in the individual case. The

rediscovery of Mendel's work in 1900 showed that thirty-five years earlier the Austrian monk had reached the conclusion that a scheme of analysis must deal not with mass population, but with a smaller unit—the family—and that each character of the individual must be separately investigated. Since then it has been found that many characters are not controlled by one single factor, but by two or more. A familiar instance of the two-factor character is the appearance of the colouring matter anthocyanin in the petals of plants such as stock and sweet pea. One proof that two factors (at least) are here involved is obtained when we find that two true breeding forms devoid of colour yield coloured offspring when mated together. In this case the two complementary factors are carried, one by each of the two crossed forms. When both factors meet in the one individual, colour is developed, thus explaining the phenomenon of reversion. From time to time the objection has been raised that the Mendelian type of inheritance is not exhibited in the case of specific characters. That no such sharp line of distinction can be drawn between the behaviour of varietal and specific features has been repeatedly demonstrated. As a case in point and one of the earliest in which clear proof of Mendelian segregation was obtained, we may instance Datura. The two forms, D. Stramonium and D. Tatula, are ranked by all systematists as distinct species. Among other specific differences is the flower colour. The one form has purple flowers, the other pure In the case of both species a variety inermis is white. known in which the prickles characteristic of the fruit in the type are wanting. It has been found that in what-ever way the two pairs of opposite characters are combined in a cross between the species, the F_2 generation is mixed, comprising the four possible combinations in the proportions which we should expect in the case of two independently inherited pairs of characters, when each pair of opposites shows the dominant-recessive relation. Segregation is as sharp and clean in the specific character flower colour as in the varietal character of the fruit. The question of linked characters was next dealt with in connection with Morgan's chromosome theory. The address ended with an appeal for more organised co-operation in the experimental study of genetics.

The Production of Metallic Alloys.

Mr. C. T. Heycock, F.R.S., President of the Chemical section, dealt with metallic alloys. The production of alloys, he said, "undoubtedly constitutes the oldest of those chemical arts which ultimately expanded into the modern science of chemistry." Tubal Cain was "an instructor of every artificer in brass and iron." Although it is doubtful whether he was acquainted with the manufacture of such a complex metallic alloy as brass, it is certain that mankind from the very earliest times has employed alloys for the manufacture of implements of war and of agriculture, of coinage, statuary, and cooking-vessels. Until recent times the whole of the knowledge of alloys was empirical. The earliest recorded scientific investigations on alloys were made by Réaumur in 1722, who used the microscope to examine the fractured surfaces of iron and steel. Professor Sorby, of Sheffield, was, however, the founder of modern metallography, his methods of examining and preparing sections of rock. iron and steel, described in 1864, being those employed to-day by all who work at this branch of metallography. Reference was then made to the work of Mattheisen in 1854-68 on the electrical conductivity, tenacity, and specific gravity of pure metals and alloys, which led to the conclusion that alloys were either mixtures of definite chemical compounds with an excess of one or other metal. or solutions of the definite alloy in the excess of one of the metals employed, forming in their solid condition a "solidified solution." The bearing of Guthrie's work on cryohydrates was explained as giving the first important clue to what occurs on cooling a fused mixture of metals. Researches by Raoult on the depression of the freezing-point of solvents due to the addition of dissolved substances, and by Van 't Hoff on the theory of solution, with the work of Laurie, Neville, and Ramsay, helped to establish the similarity between the behaviour of metallic solutions or alloys, and that of aqueous and other solutions of organic compounds in organic solvents. The perfection of the electrical resistance pyrometer enabled the experiments to be continued to alloys which freeze at high temperature and incidentally showed the remarkable accuracy of Callendar's formula connecting the temperature Centigrade with the change of resistance of a pure platinum wire, and of Callendar and Griffith's determination of the boiling-point of sulphur. After dealing with other researches, particularly those on copper-tin, with which the lecturer was connected, attention was called to the fact that without a working theory of solution the interpretation of the results would have been impossible. Mention was made of the remarkable advances made in the manufacture of metals which until recently were rare laboratory products Aluminium, chromium, cerium, thorium, tungsten, manganese, magnesium, molybdenum, nickel, calcium and calcium carbide, carborundum, and acetylene were unknown outside the chemical laboratory a few decades ago; to-day these elements, their compounds and alloys, are among the most valuable of our industrial metallic products. They are essential in the manufacture of high-speed steels, of armour-plate, of filaments for the electric bulb lamp, of incandescent gas mantles, and of countless other products of modern scientific industry.

The Problem of Anoxæmia.

Mr. Joseph Barcroft, F.R.S., as President of the Physiological section, devoted his address to a discussion of anoxemia (want of oxygen in the blood). He quoted Dr. J. S. Haldane's dictum, "Anoxemia not only stops the machine but wrecks the machinery." effect of an incomplete supply of oxygen is shown by holding the breath or by breathing an inert gas, but the inconvenience is not only felt by the lungs, but probably by every organ of the body. Interesting experiences in induced anoxemia were given, in which the symptoms suggested some form of intoxication similar to that produced by alcoholic excess. Just as acute anoxæmia simulates drunkenness, chronic anoxæmia simulates fatigue. The following classification was given:

1. Anoxic Type.

The pressure of oxygen in the blood is too low. The hæmoglobin is not saturated to the normal extent. The blood is dark. Examples:

1. Rare atmospheres.

2. Areas of lung partially unventilated. 3. Fluid or fibrin on surface of cells.

2. Anæmic Type.

The quantity of functional hæmoglobin is too small.

The oxygen pressure is normal. The blood is normal in colour.

Examples:
1. Too little hæmoglobin.
2. CO hæmoglobin.

3. Methæmoglobin.

3. Stagnant Type.

The blood is normal, but is supplied to the tissues in insufficient quantities. Examples:

1. Secondary result of histamine shock.

2. Hæmorrhage.

3. Back pressure.

The most efficient way of combating anoxic conditions is to give oxygen. During the war it was given with success in the field in cases of gas-poisoning, and also special wards were formed on a small scale in this country in which the level of oxygen in the atmosphere was kept up to about 40 per cent., with great benefit to a large percentage of the cases. The practice then inaugurated is being tested at Guy's Hospital by Dr. Hunt, who administered the treatment during the war.

West Indian Sponges.—A research officer has been appointed by the Colonial Office to investigate sponge fishing in the West Indies. While his headquarters will be at Nassau, he will travel among the Leeward and Windward Islands.

British Pharmaceutical Conference.

SCARBOROUGH LADIES' COMMITTEE.

The ladies of Scarborough and district met on August 30 and formed a ladies' committee, whose duties will include the entertainment of the lady visitors to the Conference in 1921. The following were elected on the committee: Chairman, Miss A. M. Hill; Vice-Chairman, committee: Chairman, Miss A. M. Hill; Vice-Chairman, Mrs. Eyre; Secretaries, Mrs. John Longdin and Mrs. E. R. Cross; Members: Mrs. J. Whitfield, Mrs. E. Parker, Mrs. T. W. Longdin, Mrs. R. C. Brown, Mrs. F. A. Lund, Mrs. Hunt, Mrs. J. Clare, Mrs. J. E. Brown, Mrs. G. W. Meadley, Mrs. A. Scott, Mrs. E. Chapman, Mrs. J. Chapman, Mrs. W. H. Newton, Mrs. A. E. Beckett, Mrs. Geo. Whitfield, Mrs. Oglesby, and Miss Simms.

LIVERPOOL LOCAL COMMITTEE.

A well-attended meeting of the Local Committee was held on August 30 at the Royal Institution, under the chairmanship of Mr. William P. Evans, J.P.

The chairman tendered the congratulations of the Committee to Mr. Harold Wyatt on his appointment as a J.P. for Bootle. A vote of condolence was passed with the family of the late Mr. Werner T. Sivertsen, of West Cross, Swansea, who was a visitor to the recent Conference.

The hon, secretaries submitted a report of the various functions of the Conference; 503 tickets had been applied for and the membership of the B.P. Conference was increased by 112 as a result of the efforts of the Local

Committee.

The hon, treasurer (Mr. Charles Huxtable) presented a very satisfactory financial statement, showing a credit balance of 114l. 6s. 11d., which was appropriated to the Benevolent Fund of the Pharmaceutical Society, the Harrison Memorial Fund, and the British Pharmaceutical Conference. The Committee voted an honorarium of twenty guineas to the hon, assistant secretary (Mr. W. J. Williams). Mr. Harold Wyatt, J.P., and Mr. J. L. Hirst were appointed auditors.

A gift of an album, containing copies of every photograph taken of the Conference proceedings, presented by Mr. J. Cleworth, President of the Manchester Pharmachester Pha maceutical Association, was cordially accepted. Votes of thanks were passed to the officers, the Ladies' Com-

mittee, and others.

New Books.

Parkes, A. E. Milk Tables. Two-page leaflet, free (stamped envelope) from author, 74 Foyle Road, Westcombe Park, London, S.E. 3. [Consists of three tables: (1) Giving the non-fatty solids from the sp. gr. and milk-

(1) Giving the non-ratty solds from the sp. gr. and minsfat; (2) deficiency in fat; and (3) added water.]

The Gentle Art of Photography. By K. of C.

7\(\frac{1}{4}\) in. \times 4\(\frac{5}{3}\) in. Pp. 161. 1s. 6d. Simpkin, Marshall, Hamilton, Kent & Co., Ltd. [Described as "the sane man's guide to a hobby," this book has been produced better the produced by the by the British Photographic Manufacturers' Association, Ltd., so that it can be sold at a cheap rate. It is pleasantly written in a disinterested manner, and does not recommend any particular manufacturer's products. There are several photographic illustrations. These features make the book particularly suitable for sale by photographic chemists.]

photographic chemists.]

The Tenants' Emergency Charter under the Rent
Restriction Act, 1920. Fifth edition. 8½ in. × 5½ in.

Pp. 48. 2s. net, Oliver & Boyd, 33 Paternoster Row,
London, E.C. [The Rent Restriction Act, 1920, is difficult to interpret, but this book states the position in nontechnical language prographing standard rents up to 1057. technical language regarding standard rents up to 1051., grounds and limits of increase, fixity of tenure, furnished houses, and business premises.
section covers four pages of the book.]

Birth.

PATERSON.—At 6 Merrion Row, Dublin, on August 22, the wife of A. I. Paterson, M.P.S.I., of a son.

Marriages.

HOTHERSALL—BLEZARD.—At St. Paul's Church, Oswald-twistle, Lanes, on August 25, R. H. Hothersall, chemist and druggist, Union Road, Oswaldtwistle, to Annie, youngest daughter of Mr. J. Blezard, Roegreave Road.

SHANKLIN—JOHNSTON.—At the Wesleyan Church, Mostyn Road, Brixton, London, S.W., on August 24, by the Rev. W. H. Hart, William Percy, eldest son of Captain Shanklin, Euston Grove, Birkenhead, to Marian Bradwall, only daughter of Mr. W. Johnston, Ph.C. (secretary of the Chemists' Defence Association), St. Lawrence Road, Brixton.

Deaths.

Bower.—At his residence, Osbourne Villa, St. Catherine's, Lincoln, on August 25, Mr. John Henry Bower Battle, Maltby & Bower, Victoria Chemical Works), aged sixty-five. Mr. Bower was formerly in the employ of Messrs. Morris & Co., artificial-manure manufacturers, East Stockwith, and went to Lincoln about thirty years ago to take up a partnership with Messrs. Battle & Maltby, manufacturers of sheep-dips, cattle medicines, etc. In his business relations Mr. Bower won the respect and confidence of a large clientèle. His hobby was music, and for some years he occupied the post of organist at St. Catherine's Wesleyan Church. He also successfully conducted a choral society at Saxilby. Mr. Bower leaves a widow (he was twice married), a son, and two daughters.

Cullen.—On August 21, Mr. H. W. Cullen, aged twenty-four. On the completion of his apprenticeship with Mr. A. Poxon, chemist and druggist, Brownhills, Walsall, Mr. Cullen enlisted and gained a commission in the Lancashire Fusiliers. He was taken prisoner by the Germans at St. Quentin on March 21, 1918. His death was due to the effects of gas-poisoning.

ELLIS.—At Rhyl, on August 27. suddenly, Colonel Richard Ellis, director of R. Ellis & Son, Ltd., aerated-

water manufacturers, Ruthin.

HEATON.—At Hurstpierpoint, recently, Mr. George Edward Heaton, chemist and druggist, aged fifty-nine.

McKinnon.—At Dundee, recently, Mr. Daniel John McKinnon, chemist and trawl-owner. Mr. McKinnon was registered as in business before August 1, 1868.

He was for many years a town and parish councillor.

Walker.—At 77 King Street, Castle-Douglas, on August 24, Jeanie Smith (Jean), elder daughter of Mr. Fred Walker, chemist, in her fifteenth year.

Wiseman.—At 12 Hellyer Road, Southsea, on August 21, Agnes Louise, the wife of Mr. George Henry Wiseman, chemist and druggist.

Mr. WILLIAM HERBERT HEWETT, chemist and druggist, 40 Queen's Park Terrace, Brighton, who died on June 11, left estate of the gross value of 3,304l. 14s. 8d., with net personalty 3,170l. 2s. 1d.

THE LITTLE GREY BOOK SUPERSEDED.—Gramophone records on materia medica and posology, for the use of students, have been suggested by a Birmingham harmacist.

THE ANTISCORBUTIC VALUE of fresh vegetables is well But if dried, even at a low temperature and withbut sterilisation, this value, M. Muriquand and M. Michel, of the French Society of Biology, affirm, is lost; nor can t be restored by soaking in water.

Personalities.

MR. F. GILLEY is now representing Odclon, Ltd., in Scotland and the North-West Counties of England.

MR. E. T. GRAY has joined the staff of Allen & Hanburys, Ltd., and will represent them in part of the London

MR. HAROLD MITCHELL, P.M., chemist and druggist. Forest Gate, London, E., has been installed as first Master of the newly consecrated Forest Gate Lodge, No. 4153.

MR. FRED JOHNSON, chemist and druggist, who has had many years' experience as a commercial traveller, is joining the representative staff of Allen & Hanburys, Ltd.

COUNCILLOR C. A. CRITCHLEY, Ph.C., Blackburn, ex-President of the North-East Lancashire Chemists' Association, has again been adopted as Conservative candidate for St. John's ward at the November election.

Mr. W. Burgess Dow, chemist and druggist, Hornsey Road, London, N., has recently won the championship of the Crouch Hill Bowling Club. The club holds the London and Southern Counties Bowling Association's Challenge Shield.

MR. HAROLD HENRY ROGERS, who for many years has been a senior clerk in the home invoice section at the chief offices of Burroughs Wellcome & Co., has received a presentation watch, suitably inscribed, to commemorate the completion of twenty-one years' service with the firm.

Mr. John Gibson, F.I.C., F.C.S., F.S.M.C., chemist and druggist, is the author of a work on Hexham Abbey for a series entitled "Notes on Famous Churches and Abbeys." It is illustrated by photographs from Mr. Gibson's own negatives, and published by the Society for Promoting Christian Knowledge. Mr. Gibson was a co-author of a volume on "Hexham and its Abbey," published last year. lished last year.

CAPTAIN H. I. LLOYD, M.C., who has been captured by Arab tribesmen and taken to Deli Abbas, is the eldest son of Mr. Isaac T. Lloyd,

chemist and druggist, King's Road, Chelsea, London, S.W. Captain Lloyd. When secondlieutenant he was awarded the military cross for gallantry during a raid on the enemy's trenches in France (C. & D., October 14, 1916, p. 1040). He was invalided home, and on recovery sent out to India, thence to Mesopotamia, taking part in the relief of Baghdad (where his wife is at the present time). At the conclusion of the Armistice he remained in Mesopotamia and was made political officer



CAPTAIN H. I. LLOYD.

at Dellawah. The Arabs are reported to be treating him well. Prior to joining the reported to be treating him well. Prior to joining the Army Captain Lloyd was at Cambridge University.

Coming Events.

Saturday, September 4.

fectioners'. Bakers', and Allied Traders' Exhib Market, Royal Agricultural Hall, London, N. 1. 10 a.m. and continues until September 10. Exhibition and Confectioners',

Monday, September 6.

Glasgow Pharmacy Athletic Club, 165 Hill Street, Garnethill, at 8 r.m. Meeting of the Football Section to inaugurate the season. All those connected with the trade who are interested in football are asked to be present.

Thursday, September 9.

Bradford Pharmacists' Association, Central Café, at 8.15 p.m.
Mr. J. P. Gilmonr, editor of "The Pharmaceutical Journal,"
on "Is Fharmacy played out?"

South Wales and Monmouth Pharmacist Associations Federation,
Cameron Hotel, Swansea, at 3 p.m. Meeting of Executive,
delegates, and members.

Trade Notes.

MEAT AND MALT WINE. - Douro, 57 Dolben Street, Blackfriars, London, S.E. 1, offer to supply meat and malt wine for sale under the chemist's own name.

TINKER'S DOG MIXTURE. - The retail prices have been advanced to 2s. and 3s. 6d. per bottle; the wholesale prices being 18s. 6d. and 32s. 6d. per doz. respectively.

ALLENBURYS PRODUCTS.—Allenburys cocoa and Allenburys milk-food chocolate, of which there has been a shortage, are now available in adequate quantities for customers' requirements.

MONTROSE SCALP-BRUSH.—The address of Montrose, Shawfield & Co., whose scalp-brush was referred to in this column last week, should have been given as 17 New Oxford Street, London, W.C. 1.

ENOLIN.—The retail prices are now: Enolin paste, 1s. 6d. and 10d. per tube, and Enolin powder 1s. 3d. and $7\frac{1}{2}d$. per tin. The proprietors, A. & E. Carreras, Ltd., 207 King Street, Hammersmith, London, W. 6, make a special cash allowance for window-displays.

FOUNTAIN-PEN BONUS.—Raymet & Co., Ltd., 507-509 Harrow Road, London, W. 10, are repeating the offer made last year, of a fountain-pen bonus on Raymet shampoos ordered during September. Particulars are given in the company's advertisement in this issue.

CARMA.—The Carma Co., 1 Steward Street, London, E, 1, inform us that as a result of their last week's advertisement they have been inundated with orders for their bottle-capping. As the result of further research they have been enabled to reduce the price to 25s. per gallon.

NYAL'S FACE-CREAM.—Thos. Christy & Co., 4, 10 and 12 Old Swan Lane, Upper Thames Street, London, E.C. 4, send us one of the new showcards advertising Nyal's Facecream, supplies of which are now available for the trade. The printing on the card (11 in. by 14 in.) is in yellow and black, the colour scheme harmonising with an actual carton of the face-cream attached to the centre of the card.

SEIDLITZ POWDERS.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E. 13, direct attention to the G.O. Seidlitz Powders, which are lemon-flavoured and sweetened. Customers appreciate an im-proved seidlitz powder. This brand sells at 3d., and when bought in five-gross lots chemists can have their name and address printed free on the envelopes. Showcards and posters are supplied.

BLINELOW ASTHMA CURE.—The proprietors of the Blinblow asthma cure announce that the protected prices of this well-known asthma powder have been increased to 1s. 6d. and 4s. The cigarette form is now 1s. 6d. blow" is supplied only through wholesale houses, and the name and address of the retailer are printed free on orders for three dozen. Counter-bills are also supplied. powder and cigarettes are used also in bronchitis, whooping-cough, and hay fever.

SPIRIT STOCK BOOK.—Fletcher. Fletcher & Co., Ltd., Vibrona Laboratories. Holloway, London, N., have issued a fourth edition of their "Spirit Stock Book for Manufacturers of Medicinal Preparations." Several improvements have been made in this edition which enhance the convenience of the register-e.g., the space for spirit received has been reduced to one page, thus giving more pages for "used" spirit entries, and the table of equivalents has been extended so that ounces and "mils" (c.cs.) can be converted into proof gallons as well as bulk gallons. The rebate that may be claimed on medicinal preparations amounts to the equivalent of 4l. 13s. 7d. per gallon of rectified spirit, and we imagine there are few chemists making galenicals who do not now claim the rebate. The price of the book is 18.

DRY BATTERIES.—Siemens Brothers & Co., Ltd., electrical engineers, Woolwich, London, S.E. 18, have issued a new and enlarged edition of Catalogue 537, dealing with dry cells and batteries. The company has manufactured dry cells and batteries at its Woolwich works uninter-

ruptedly for nearly thirty years. The researches carried out, and the experience gained during that time, have resulted in the production of cells of the highest quality. Many of the cells described in the catalogue are specially suitable for electro-medical work such as galvanisation, faradisation, ionic-medication, and galvano-cautery, and for medical lamps. Illustrations and a description of the Siemens "Inert" cells are also given. These cells, which are rendered active by the addition of water, may be stored for an indefinite period in any climate without undergoing deterioration.

A BUSINESS CENTENARY.—Dakin Brothers, Ltd., wholesale druggists, Middlesex Street, London, E.C., are this year celebrating the centenary of the establishment of the business. According to the company's advertisement in this issue the founder was William Bryden, whose premises were in Abchurch Lane. We find that Thomas Dakin, who entered the firm as an assistant, acquired it in 1845, and was joined by his brother Joseph in 1850. Mr. J. Harrison Dakin, the present governing director, son of Joseph Dakin, joined as a partner in 1865, and in 1882, on the death of his father, took over the full management of the business. From Abchurch Lane the firm moved to Creechurch Lane, and in 1901 to the present premises in Middlesex Street. Thomas Dakin retired in 1867, and subsequently becoming Lord Mayor of London, was knighted in 1871. Sir Thomas died in 1889. The business was in 1907 converted into a limited company, the directors being Mr. J. Harrison Dakin, Mr. Geoffrey Dakin (son), and Mr. A. V. Appleton. A sketch of the premises is given in the advertisement.

CHRISTMAS AND NEW YEAR CARDS.—Raphael Tuck & Sons, Ltd., Moorfields, London, E.C. 2, send us a collection of their new designs in Christmas and New Year cards, postcards, Christmas autograph stationery, calendars, gift books, and toy books. The company have set themselves the task of repeating previous successes in producing these artistic souvenirs, and we think they have succeeded. The Royal Christmas cards have again been prepared by Messrs. Tuck. The King's card has upon it a colour print of William and Mary opening the Royal Chelsea Hospital, the Queen's card shows a flower garden scene, and the Prince of Wales's a picture representing the grant of letters patent in 1496 to John Cabot to search for unknown lands. The Royal cards There are many other are sent out with calendars. beautiful examples of colour printing and tasteful designing. Some specimens are perfumed with pot-pourri. and form a pleasant variety in these artistic cards. graph stationery, which has in many cases replaced private Christmas greeting cards, is supplied in numerous de signs. These are boxed in half-dozens, with the necessary envelopes. The postcard form of greeting card is also well represented. It is, we are reminded, twenty-one years since picture postcards were introduced. The calendars are again notable in variety. This year the monthly date pad is usually suspended beneath the picture, which is supplied with silk ribbon for hanging. The children's is supplied with silk ribbon for hanging. picture books and painting books are well produced, a novelty in the painting books being the provision of palates of colour, with directions for obtaining intermediate tints. Altogether these form a highly creditable representation of British enterprise and determination to maintain a reputation built up by years of labour.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

B/268. Dermosan. M/268. Quin Sal. BB/268. '' Demon'' Bo/308. Dandelion brand butter B/318. Key brand lenses in optical goods.

Ba/19. Oriental Poppy permarking- B/318. Key ink.
"Morin Yellow." C'/268. M/288. Uterine Catholieum.
B/308. Meda cream powder.
B/308. Rossance cream.
B/308. Artifex rubber curlers. fume.

B/19. Osokosi foot warmers.
L/29. "Gloria" Americ American paraffin.

Observations and Reflections.

By Xrayser IL

The Pharmaceutical Council

appears at last to have awakened to a sense of the injury done, or to be done, to pharmacists by the Proprietary Medicines Bill. It is clear from the definition of a proprietary medicine quoted by you from the Bill that I was literally correct in saying that there are "thousands" of "pharmacists' honest. fairly priced, and useful" preparations which will come under the scope of the Act, and our official journal acknowledges that the registration fees payable thereupon may prove "a heavy tax in some businesses." It is, however, suggested that "the official representatives of pharmacy may be able to secure for us some "advantageous modifiof the proposed requirements. I can only say that to pooh-pooh the remonstrances against the Bill made "in certain quarters" does not seem to me a hopeful way of setting about this endeavour, nor is the high-browed attitude hitherto assumed towards the whole subject of more favourable augury. One can hardly help suspecting that the Council's heart is not in the business it professes itself ready to undertake; that only the general indigna-tion of the trade at this trespass upon our interests has aroused this belated zeal on our behalf. From such defenders may heaven defend us. Already they warn us not to expect too much from their action, and bid us be thankful for what the Bill will deliver us from as an "offset" to the injustice it will do us.

"Paregoric Substitute"

is not a term the use of which should be encouraged, but I do not see what means, other than persuasion (which is hardly likely to be effective), we have of stopping its use, and the Council of the Pharmaceutical Society is scarcely the body I should appeal to with this object, seeing that in the Codex of 1907-8 it gave currency to a formula of a paregoric without opium similar to those on the market with that or some equivalent designation. It is true the use of the term "paregoric without opium" was deprecated, but it is difficult to see what other popular name could be used instead of it. Probably "Paregoric Substitute" is the least open to objection that could be devised, though I admit there are reasons for objection here too. It is a great pity that the word "Paregoric" was ever taken into our Pharmacopeia (we owe it to the Edinburgh College), and our General Medical Council would have been well advised if, instead of making such names as this and laudanum official synonyms, it had sought power to forbid the sale of any official medicines under any but official names descriptive of their composition. To alter the old title Tinct. Opii Camphorata to Tinct. Camphor. Co. was an act of folly. This, however, is crying over spilt milk.

"Medicine ' and "Medicament,"
even when the former is applied to substances employed in medical treatment, have not precisely the same connotation, though it is not every dictionary that notes the difference, which, indeed, is rather fine, and evidently escaped Mr. Chester Jones. It may be said that a medicament is always a medicine, but not so certainly that a medicine is always and necessarily a medicament, though usually it is. Murray (cited in the case I refer to) notes the difference in the definition of "medicament" as "a substance used in curative treatment," and of "medicine" as "any substance or preparation used in the treatment of disease," which seemed to Mr. Jones to be a contradiction in terms. The fact is that the latter term is more general than the other. Formerly, as Johnson and Walker both note, "medicament" was specially applied to topical applications, and it still, perhaps, is felt to be a more suitable term for these than medicine; thus Allbut (1899): "Certain drugto which the medicament is applied." Few writers, I think, would use "medicine" there. As its formation. shows, "medicament" involves the idea of special medication. Mr. Cecil Owen, in his recent article on the British

Pharmaceutical Conference excursion, said that the water of St. Winifred's Well at Holywell is not "medicated, but he would not say that it is not medicinal. If anything that is medicinal in effect is a medicine all soaps are medicines, but they are not all medicated. Here we have instances illustrating the difference I am trying to bring out. But what an enlargement of the scope of the Proprietary Medicines Bill this tooth-paste case foreshadows. A boot advertised as a preventive of corns may have to be stamped and registered.

Cvathus

does not, strictly speaking, require vinarius after it to make it signify a wineglass, though latterly it has been customary to write it with that addition. Literally the word means a cup, but Littleton adds, "a little pot or glass to drink out of; also a small measure containing four spoonfuls." This agrees with Adam ("Roman Antiquities "), who says that a cyathus contained "the twelfth part of a sextarius, which is nearly a quart English [therefore about the same as a modern wincglass]." Larger cups were named according to the number of cyathi which they contained, e.g., sextans, a cup containing two cyathi. The authority I had in mind when using the term was Alleyne (1733), who defines cyathus, "an ounce and a half." I find that in Lane's Conspectus Cyath. and C. vinarius are both given as meaning a wineglassful. Rennie has "Cyatho, in a cup." How it is that whereas the Roman cyathus held four spoonfuls (cochleare is the fourth part of a cyathus) ours has shrunk to three, or an ounce and a half, I cannot say: perhaps our spoons are larger than theirs. It is, in any case, certain that the Roman cyathus was, above all things, a winecap.

Your Note on Parsley

as a gall-stone cure revives memories of its former reputation as a remedy for jaundice, for gravel and the stone, and all obstructions of the liver and kidneys. It has long since dropped out of use in general practice, though it is still used in the form of apiol for specific diseases, and it is particularly interesting to find it, as the market reports say, "looking up" in its old character. I gather from Culpeper that it was Tragus (Hieronymus Bock, A.D. 1498) upon whom he relied for his faith in its efficacy in jaundice, and it is strange that it should have disappeared, even for a time, altogether from official practice if, as is now claimed, it really has the virtue Bock attributed to it. He gave it (seeds and root) mixed with burnet, saxifrage, and caraway, in decoction, and Culpeper declares that it "expelleth the dropsy or jaundice by urine." Lyte too says that it "openeth the stopping of the liver, the kidneyes, and all interior parts." especially recommends it for women's disorders.

Mr. Grant Richards

suggested in a recent "Times Literary Supplement" that in view of the Christmas publishing season, English publishers should unite to advertise books, as is being done in America, where a common fund of 100,000 dollars has been raised for the purpose. The idea is not to mention any particular book or publishing firm, but to urge the claim of books to be regarded as of at least equal value with theatres, "movies," sports, and entertainments of all kinds, as means of recreation and amusement (not to mention any higher claim they may have), and so to divert into this channel some of the money lavished upon these more popular things. Would it not be worth while for our great patent-medicine proprietors to unite, in like manner, to resist the campaign of misrepresentation and positive slander now so vigorously waged against their wares, and to open the eyes of the public to the true character and aim of the Proprietary Medicines Bill? Mr. Richards's argument that what the hard-headed American finds worth while must be worth while here is as applicable to patents as to books, and there seems as much occasion for it in the one case as in the other. But, as Mr. Richards says, any effective effort will have to be a united and a whole-hearted one. Money, and no small sum, will be required, and the more general the effort the greater the prospect of success.

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Editorial Articles.

Import and Export Restrictions.

THE policy of the Government in the Imports and Exports Restriction Bill, which is to be introduced early in the autumn session, is a matter of considerable interest to the chemical dyes and drug trades, so that the provisions of the Bill are likely to be eagerly scrutinised and criticised. The British Chemical Trade Association is keenly watching the interests of its members in this matter, and recently sent a deputation to the Board of Trade, when Mr. P. W. L. Ashley, C.B., assured the deputation that in the event of Advisory Committees being set up to assist the Department in respect of the issue of licences, due consideration would be given to the importance of the merchant interests concerned. This statement was evidently considered satisfactory to the members of the Association, whose business it will be to see that the representation of merchants of any Advisory Committees set up will be adequate to protect their interests. The fear has been expressed by one merchandising company that official control will be invested too much power, and that "aspects of vital interests will be dealt with by departmental orders and actions, instead of by the application of definite principles fully considered and properly sanctioned by Parliament. Nothing could be more objectionable in theory or more pernicious in practice than legislation conceived in secret conclave and administered by a hidden hand." These facts represent what happened to merchants until the Sankey judgment swept the proclamations away as illegal. Now a statute is going to restore the restrictions on im: ports of "certain commodities," but particulars of what these are will not be known until the Bill is available. Since the restrictions were removed on imports considerable quantities of pharmaceutical chemicals have been received here, and have helped to bring prices to a more reasonable level; but in several instances the market has been flooded with chemicals, particularly from the United States and Germany, at prices which are the despair of the British chemical manufacturer, who, big or little, continues to work in his own watertight compartment. It is interesting to learn that there is a possibility of all export restrictions on chemicals and dyestuffs being swept away presently, as the Board of Trade informed a deputation of the British Chemical Trade Association that the present restrictions would lapse upon the "legal termination of the war." If, however, it should be found necessary to continue export restrictions on classes of commodities in which the Association is interested, the Board of Trade has promised to meet the representatives of the Association again. In connection with applications for export licences for dyestuffs, it is understood that the Department will continue to relax as far as possible the condition requiring "manufacturers' certificates" in the case of dyestuffs, of which there is clearly no shortage to domestic consumers and which can be freely purchased on the market. The war has not legally terminated yet, and

the date has to be fixed. The above intimation is considered satisfactory by the British Chemical Trade Association, and affords concrete evidence that its successful dealings with Government Departments are not the least important of the Association's activities.

Alkali Works Inspector's Report.

THE fifty-sixth annual report on alkali works by the Chief Inspector under the Alkali, etc., Works Regulation Act, 1906, was published recently. It covers the year 1919, and deals with the registered works in the United Kingdom, the Scottish portion being presented as an appendix. In England, Ireland, and Wales there were 1,403 registered works, and in Scotland 165 works, an aggregate of 1,568, as compared with 1,580 in 1918. No proceedings were instituted for contravention of the provisions of the Act. It is reported that the general state of plant in the works is resuming the normal prewar conditions as regards repairs, extensions, and erection of new plant. The electrolytic methods for the production of alkali were further extended during the year, and were accompanied by a continued contraction in the operation of the old Le Blanc process which has maintained its usefulness since its inception in France at the end of the eighteenth century. Concurrent with the extension of electrolytic processes, the ammonia-soda process was likewise further developed, so that as regards production of alkali the old process has lost much of its importance. The initial stage of the Le Blanc process, in which sulphate of soda in the form of salt-cake and hydrochloric acid are the two products, still fulfils a useful and successful function. It was this stage of the process which led to the first Alkali Act being passed, and which still requires the registration of such works as "alkali" works. The demand for sulphate of soda, in various commercial forms, and for hydrochloric acid. was large and widely distributed throughout the country. Thus, although, owing to a policy of concentrated production and from the competition of newer processes, several of the large alkali works in which the full Le Blanc process was in operation were closed down, so far as this department was concerned, a greater number of new works were started in various localities for the production of hydrochloric acid and salt-cake, and were registered accordingly as alkali works. Owing to the great reduction in production of high explosives after the completion of the Armistice, there was a large shrinkage in the quantity of nitre-cake available for utilisation, so that comparatively little was used for the production There were 140 sulphuric-acid works of salt-eake. registered in 1919, a decrease of six from 1918. The year opened with a period of greatly diminished production in all parts of the country owing to the sudden cessation of the large production of high explosives subsequent to the completion of the Armistice in November of 1918, and also in some measure to the disposal of large stocks of acid accumulated to meet the exigencies of war. Many manufacturing plants were laid off work, a few of which were dismantled and thus closed permanently; others were kept in operation but with reduced charges; while the remainder were kept in moderate activity throughout the year. During the prolonged period of slackened demand most manufacturers took the opportunity to effect repairs which had been delayed during the previous period of pressure, and which had been further delayed by difficulties in commencing, and by the slow rate of progress in completing, the desired

repairs and reconstruction. In the latter part of the year demand gradually increased until in December the manufacture as a whole was in a fair state of activity, with, in nearly every works, efficient plant thoroughly overhauled and ready to meet any increasing demands which might arise. It is noted that the catalytic methods of producing sulphuric acid have been disturbed owing to the difficulty of purifying pyrites gases, which causes deterioration of the catalytic material. This difficulty, combined with a large diminution in the demand for oleum, led to a greatly curtailed production of fuming acid. Some oleum plants remained entirely idle throughout the year. There has been greater activity in the chemical-manure works, owing to the enlarged and continuous demand for phosphatic manures. The report also deals with works making sulphate of ammonia, nitric acid, chlorine, hydrochloric acid, pieric acid, and with processes in which arsenic fumes are evolved. In an appendix a useful research is summarised on the estimation of pyridine in sulphate of ammonia and ammoniacal liquors. From this it appears that solutions of ammonium sulphate boiled under ordinary pressure lose ammonia and become acid. These effects are greater in proportion as the concentration of the sulphate increases, and the recovery of other than traces of pyridine by distillation from such solutions can only be effected by treatment with a relatively large amount of alkali. Under reduced pressure the evolution of ammonia is markedly less, and finally ceases when the temperature of distillation is reduced to 40° to 45° C. When vapours of ammonia and pyridine (or solutions of those bodies) enter a solution of sodium hypobromite together, whether cold or hot, the ammonia is destroyed. When small amounts of ammonia are present—say, less than 0.05 gram NH3—the pyridine is not appreciably attacked, and practically the full pyridine content can be recovered by boiling the hypobromite; with larger amounts of ammonia—say, exceeding 0.1 gram NH3-the pyridine is attacked and there is loss, which may exceed 20 per cent. of the total pyridine taken. The recovery of pyridine from solutions of ammonium sulphate, free from sulphide and volatile organic bodies, is conveniently effected by double distillation: (a) In the first distillation a relatively large excess of soda is employed to liberate the pyridine, and the vapours of pyridine, associated with a relatively large amount of ammonia, are condensed in acid, for subsequent redistillation; (b) in the second distillation a relatively small amount of soda is employed, and vapours of pyridine associated with a relatively small amount of ammonia are passed into a cold solution of sodium hypobromite, whereby the ammonia is destroyed and the pyridine set free for recovery by distillation into standard acid. In the second distillation the evolution of pyridine is aided by the addition of sodium citrate, to serve as hydrion regulator, whereby acid set free in the boiling solution is neutralised by the citrate, with formation of disodium hydrogen citrate. In the estimation of pyridine in ammoniacal liquors the recovery and titration of pyridine may be seriously prejudiced by the presence of impurities such as sulphide and volatile organic compounds. The removal of such bodies is conveniently effected, in the case of gas-works liquors, by replacing the first distillation referred to above by distillation with excess of lead nitrate, whereby the sulphide is retained and the pyridine obtained in the distillate associated with a limited amount of ammonia and suitable for treatment by distillation (b), referred to above.

A Ministry of Science for India.

THE Chemical Services Committee, presided over by Professor J. F. Thorpe, F.R.S., have arrived at the conelusion that a service to be called the Indian Chemical Service should be established. The report formulates a scheme to give effect to the recommendations. Professor Thorpe states that during the two visits he made to the provinces it became apparent to him that the development of the chemical industries of India could only be adequately realised through the agency of an efficient Government Chemical Service. The Committee believe that their proposals will help forward that industrial development that India so greatly needs. The recommendations include the establishment of a Central Imperial Chemical Research Institute in Dehra Dun, with provincial research committees in the various provinces. The functions of the Central Institute would be to create new industries, while the provincial institutes would develop on an industrial scale new industries previously worked out by the Central Institute. As regards recruitment, it is recommended that there should be no differentiation in the appointments of Indians and Europeans. The Committee propose the following scale of pay: Rs.400 per month, with overseas allowance of Rs.150 at the age of twenty-five years, and proceed by annual increments to Rs.1,500, with Rs.250 overseas allowance, at the age of forty-nine. In India the chief administrative post would be Director-General, whose pay would be Rs.3,500. An important recommendation is that for the establishment of a Ministry of Science, and the Committee hope that in time it may be possible to form Ministries of Science in the provinces, as well as in the Central Government. In a resolution recently issued by the Government of India on the report it is stated that the Government have the recommendations of the Committee under consideration, but in the meantime they express their thanks to the Committee and to the President, Professor J. F. Thorpe. Chemists will recall the special efforts made years ago by the Indian Government in the planting of cinchona and the manufacture of quinine. This was, however, almost confined to one small tract of country in the Madras Presidency. With the formation of an All-India Chemical Department the wonderful natural resources of the Indian Empire may be more adequately developed to the advantage of the whole world.

Malaria Clinic Prescriptions.

A correspondent sends us one of the prescriptions issued by a tropical-disease clinic of the Ministry of Pensions, which the patient is directed to take to a well-known company of cash chemists. As the name is typed in the same manner as the rest of the prescription, it would appear that malaria patients have not free choice of chemist, and that the elaborate directions that have been issued to private panel chemists regarding pricing arrangements are unnecessary.

Chilean Nitrate.

Among the reports issued by the Imperial Mineral Resources Bureau is one dealing with nitrates during the years 1913-19, the world's chief producers of which, excluding synthetic nitrate, are Chile and India. Statistics and technical information are given in the report relative to the production and consumption, an effort being made to fill in, as far as possible, the hiatus due to the war in the publications relating to mining and metallurgical statistics. The production in Chile during 1919 was 1,672,374 metric tons, the lowest since 1913, when the output was 2,773,552 tons. During recent years Chilean nitrate has had to compete with synthetic nitrates which

have produced supplies at a sufficiently low cost to compete with natural nitrate. Prior to the war Germany was the largest consumer of nitrates in the world, and that country is now the largest producer of synthetic nitrates, which are also produced to a considerable extent in Norway. No figures concerning the production of synthetic nitrates are available for the period under review, but the output was large, and if it could be maintained in peace time the synthetic product would compete to a serious extent with Chile nitrate. The most notable event as regards prices during the period took place in 1918, when the purchase and sale of Chilean nitrates were centralised by the Allied Governments, the Allies purchasing through a joint purchasing board. The price was then fixed at 13s. for ordinary and 13s. 6d. for refined, per Spanish quintal of 101.4 lb., compared with 7s. 9d. per quintal in 1913. Among other information, the report gives statistics of the imports and exports into and from the United Kingdom, also including saltpetre; the South African, Canadian and Australian figures are also supplied. The methods adopted for refining the Chilean saltpetre are described, these differing very little from the methods employed thirty years ago. Brief reference is made to the by-product iodine, to the effect that at the present time the world's supply is obtained almost entirely from the Chile oficinas, but no figures are given in regard to production or exports.

The King's English.

"X RAYSER II." reminds us that Bloomsbury is not always faultless in its English, probably, we suggest, because there is not complete co-ordination between the office and the editor. We have, however, come across a specimen of a resolution adopted by various pharmaceutical associations in the United States which beats Bloomsbury outright. The resolution given in the "American Journal of Pharmacy" is as follows:

Believing that the Government committed a tactical error in wishing the liquor business upon the retail druggist, we, therefore, do resolve, in the interest of law-enforcement, and that the high standard of pharmacy may be preserved untarnished, to politely but very firmly decline the "honour," standing pat on the proposition that liquor should be distributed through the dispensaries owned, operated, and controlled by the Government.

It is often stated that a new language is being developed in America, and this resolution seems to bear out the suggestion.

Poor-Law Medical Officers.

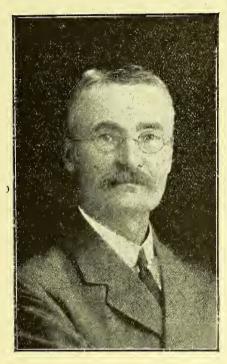
MEDICAL men who are in practice and, in addition, act as paid "part-time" medical officers for the outdoor sick poor, are concerned about the possibility that they may lose the income made in this way because of the development of a system by which outdoor patients are attended by a full-time medical practitioner resident at the institutional infirmary or hospital. The Poor-Law Medical Officers' Association has passed a resolution, which is being sent to the various Boards of Guardians, deploring the attempt now being made in some quarters to eliminate part-time "district" medical officers. The Association thinks that no changes should be made "until the whole subject has been carefully considered and the best scheme for the general welfare been decided upon." We can leave this quarrel to the doctors. No mention is made, however, of the many pharmacists employed at the dispensaries set up by the Guardians to supply the medicines and appliances ordered for the "outdoor" poor, but it is reasonable to assume that, if medical attendance is in future performed by full-time residents from the infunctions the supply of the distributions. firmaries, the supply of medicines will also be effected by the infirmaries' dispensary. We understand that at one London infirmary an outpatient department has now been opened, from which the outdoor poor receive medicines as ordered. The whole matter is one which deserves the attention of pharmacists in the Poor-Law service engaged at outdoor dispensaries. No doubt the various organisations representing these officers are watching the

Pharmaceutical Veterans.

Mr. John Lorimer.

Mr. John Lommer, who has had sixty years experience in the drug trade as manufacturer, merchant, and importer, sends us the following continuation of the reminiscences that he contributed to a special num-ber some years ago (C. & D., 1., 1903, p. 202):

My "Factory" as described by you continued in the basement at 109 Upper Street, Islington, my evaporating basement at 109 Upper Street, Islington, my evaporating apparatus being the kitchen copper, my furnace the range, and my precipitate washer the water-butt. Business grew steadily; I had to take on all the upper part of the house excepting the ground floor, which continued as dental shop and parlours, just over it being my warehouse and bottling-room. Outside the dental parlour was a big garden, and under its window a gas-stove belonging to the dentist, which I also used for distilling ether. When handling this still somewhat earelessly on one occasion the ether and my upper



MR. JOHN LORIMER.

part caught fire. The long garden was my salvation; I ran at top speed against the wind, and escaped with no greater mishap than the loss of eyebrows, moustache, etc., and some

damage to the dentist's stove.

Everything went well until an order came which called for a carboy of glacial acetic acid; with the worst possible luck, the carboy burst and its contents got through the ceil-

luck, the carboy burst and its contents got through the ceiling into the dental parlours below. The damage to instruments—and to the dentist's temper—were my undoing; being only a weekly tenant, I had a week's notice to quit with all my stock and plant, and was served with a writ elaining for damage to the gas-stove.

My stock, accounts, and capital were now increased and satisfactory; but a steam boiler and proper evaporatingpans were out of the question, and a week was very short time in which to do anything. However, I raced over all likely places in North London, settled on a disused house with a good back-vard in Holloway Road, and straightway with a good back-yard in Holloway Road, and straightway christened it "The North Lordon Chemical Works." My christened it "The North Lordon Chemical Works." My chief difficulty here was in getting the necessary evaporating plant: so for the benefit of any youthful adventurer I will describe what turned out to be the finest and most economical apparatus ever used for this purpose. It consisted of an iron cattle drinking trough about 10 ft. long, 2 ft. broad, and 3 or 10 in. deep. I built this on the top of brickwork, with a fireplace at one end running into a flue at the

other; on the top of the trough I put a cover of 11 in. deal, which fitted tight, and in the cover cut out four circular holes which took four Sunderland-ware milk-basins. The trough, when half-filled with water and heated to the right temperature by the fire beneath, made my evaporating apparatus; and, although eventually I went in for modern steam-jacketed pans, I have always looked upon my cattle-trough arrangement as perfect. The late Mr. John Moss and others who saw it also thought the simple device quite

excellent.
"The North London Chemical Works" became a well-"The North London Chemical Works" became a well-known home not only of scale preparations, but of chemical syrups, pepsines, and other products. Here was produced my first counter-speciality—and, as far as I can find, the very first in the trade, viz., "Pepsine Sauce." This was favourably noticed by Dr. Schacht, President of the "Apotheker Verein," in 1873 [and in the C. & D., 1873, p. 394.—Editors]; and I claim it as the first of a long series of "own-name" specialities in the drug-trade. My trade in ferri et quininæ citras was, by 1878, so great that I determined to produce my own quinine and citric acid, and for this purposo took into partnership Mr. F. W. Fletcher, F.C.S. We put up citric-acid plant, imported the concentrated juice, and worked like galley-slaves over this product. Mr. Fletcher, in particular, never spared himself, taking his share in the heaviest work while also devising new processes, formulas, methods of analysis, and so forth. He introduced a new test for the sait—a great advance on the old clumsy method which I had used—and altogether put his best into the venture; but markets were altogether put his best into the venture; but markets were against us. Quinine was steadily dropping from 13s. to 7d.

against us. Quinine was steadily dropping from 13s, to 7d. per oz., and the profits became insufficient for two families; so we parted. Mr. Fletcher retained the works, but it was stipulated in the deed that he did not acquire or retain the goodwill. I sold him my interest in the plant, premises, and accounts, and we thus became keen competitors.

On the day the dissolution deed was signed I started afresh in a large factory in Hargrave Park Road which had been built for a public-house. At this factory I had the most up-to-date plant for every purpose of my business, and retained a very satisfactory share of the scale-preparation trade; but, my first year's work resulted in a balance on the wrong side. The quinine market continued to fall: so I found it necessary to turn my attention to some other source of income. "Own-name" counter specialities appealed to me as giving the most attractive opening; at first, however, they were very discouraging. I devoted six weeks however, they were very discouraging. I devoted six weeks to canvassing the retail drug-trade of London without getting Navy, Civil Service, Harrod's, etc.), and immediately got as many orders as I was able to cope with. From this time onwards the progress of my business is sufficiently recorded among other news in The Chemist and Druggist.

Mr. John Pike.

The following is a further selection from the reminiscences of Mr. John Pike, whose previous record of experiences (C. & D., 1918, p. 678) created a good deal of interest:

I retain the pleasantest recollections of Cheltenham, where I spent two good and helpful years with the firm of Russell I spent two good and helpful years with the firm of Russell Jeffrey & Son. It was a fortunate circumstance for a young fellow just out of his time, on the point of passing his Minor, but lacking practice. Jeffrey's had a notable and reasonable time-table, and work was got through with the least amount of friction. Practically all the Pharmacopoeia products were made, and from ten o'clock in the morning to 8 P.M. there was as much dispensing as one could get through comfortably, not forgetting intervals for meals and the regulation recreative hour. Among other things here through comfortably, not forgetting intervals for meals and the regulation recreative hour. Among other things here I learned to spread plasters, mostly for stock—the "Pitville" plaster, to wit. In a short while I could do the heart-shaped ones with two sweeps of the iron. This kind of thing, once mastered, one never forgets. There was the nicest dispensing department imaginable: bottles and jars all bought to fit the shapes—ne makeshift contributes as all the shapes—the makeshift contributes as all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are all the shapes—the makeshift contributes are the shapes—the makeshift contributes are the shapes—the shapes dispensing department imaginable: bottles and jars all bought to fit the shelves—no makeshift contrivances at Jeffrey's. Fresh infusions—six or seven—were made every morning. Dr. Rumsey, whose name appears in the '67 British Pharmacopæia was an occasional visitor. And of the many customers. Macready—the great Macready—was one for whom I dispensed. I prepared here a chloring gargle, secundem artem, many years before I heard the name of Burney Yeo. One thing I remember of Mr. Jeffrey is, I have always thought, much to his credit. A very busy afternoon: the senior at the counter, the junior (myself) full up with dispensing. Then comes in an order for a curry-powder—a formula with about fifteen items, the sort of thing to turn one's brain. . Mr. Jeffrey took this in hand himself out of the way downstairs in the laboratory, and finished it there. It was a fine object-lesson, which I

and finished it there. It was a fine object-lesson, which I have copied more than once.

It was a great change from Cheltenham to Newcastle-on-Tyne. Two happy years in a comfortable indoor berth, with people of refinement and culture, were followed by a time when it was a case of "lodgings." I went to Brady's, then H. B. Brady. He had admirable ideas of what a chemist's shop may be. There was no window-display beyond the orthodox specie jars and so on. The business was entirely dispensing and family retail, with a wholesale department upstairs. Dispensing was the chief employment, and three of us were kept busy from about nine to seven. There were no galenicals to make. The drug department was, like that of all the best pharmacies in the North, very much up to date. Podophyllin was quite new at this time, and I remember first assisting to make some boracie lint. In addition to intermittent shop duties I kept the books, and in the capacity of bookkeeper had frequently to books, and in the capacity of bookkeeper had frequently to wait on H. B., who kept house with his father, Dr. Brady, at Gateshead. Here in a comfortable, roomy library the two would spend their evenings surrounded by their favourite books—H. B, with his microscope and his magnus opus. But the atmosphere of the shop was the reverse of literary. Beer of a certain notable quality was to be had just outside the back entrance. The manager was a man



MR. JOHN PIKE.

with a grievance, and he drowned his sorrows—literally—in beer. In fact, he would by half-past six be in a condition of saturation. He would go on working just the same, and was generally understood never to have made any mistake. Proctor's, round the corner, we at Brady's were rather inclined to look down on. In later years I was to discover that Proctor's enjoyed a quite remarkable *clientèle*, one that any pharmacy would be proud of. There was that old curious place in Clayton Street, with the shop never opened to the extent of more than one or two shutters, but usually crowded with customers. Bolam, in Northumberland Street, was enjoying a popularity always sustained. The assistant hero was generally referred to as Balaam's Ass—as a joke one could not forgo. On the coming of the late N. H. Martin there were great improvements at Brady's. If I had been a little more patient, I might have succeeded to an index position, which would have not define the content of the content had been a little more patient. I might have succeeded to an indoor position that would have made some difference to my prospects; however, the impatience of youth stood in the way, and I went to Corbyn's, New Bond Street, London. It was the proper thing, so we thought in those days, to finish off with a West End house. Here prescriptions came in shoals. They came from Lennox Browne, Carr Beard (friend of Dickens), Thomas Nunn, and many other notabilities of the day. And it was usually a case of doing the work with the patient waiting in the shop. We had to earry the "Art of Dispensing" in our heads. As was usual in those days, we got very good prices.

Leamington, as I remember it in 1875, was inconceivably

Leamington, as I remember it in 1875, was inconceivably dull. I went to Garrad's, on the Parade. The routine was something like this: breakfast at 8.30 (Mr. G. and I tête

à tête)—coffee, ham, eggs, rolls, butter, and jams. Mr. Garrad, I may say, was a bachelor, and a good fellow. At about one o'clock lunch was served (to me and another assistant who lived out) in the assistants' room—bread and cheese and butter and a jug of good Burton ale. A quiet, drowsy sort of afternoon followed, broken by an hour's walk. At five, dinner—nothing very special, but good and when the little there were generally visitors. Mr. walk. At five, dinner—nothing very special, visitors. Mr. plentiful. Luckily, there were generally visitors. Mr. Garrad was like Sairey Gamp—he liked to drink fair; and Garrad was like Sairey to the other evenly divided. The Garrad was like Sairey Gamp—he liked to drink fair; and the jug passed from one to the other evenly divided. The incursion of a visitor always meant a bottle of wine in addition. At nine, supper, a replica of lunch. All this was right enough in its way if any work had been available; but there was little or none worth mention. Coming from such a place as Corbyn's I could not stand it, and after a few weeks went back to London, rested and refreshed. Garrad had a few curious fads. One was to allow no castor oil or cod-liver oil in the shop. We had to take a taper and go to the cellar, where the oils were kept in a sort of rabbit hutch. Then he made a great fuss with syr, ferri, iod., which was put into phials, lightly plugged with wool, and suspended on a line at the end of the garden, a place with more of brickbats than flower-beds. It seemed rather a silly business on a dark and rainy night. rather a silly business on a dark and rainy night.

It was my practice on a rariving at a fresh place to spend a quiet half-hour in looking round, and I got to know very quickly where things were. I remember an instance of this when I went to the Pont Street house of Messrs. Bradley & Bourdas—the old shop, in Mr. I. Bourdas senior's time. I had had my usual look round when I heard Mr. time. I had had my usual look round when I heard Mr. Bourdas and an assistant discussing an item of a prescription which could not be found, and it was a question of sending out. "Is it —— you want, Mr. Bourdas?" said I. He roplied in the affirmative. "Well," I continued, "there is a small bottle of it in the wall-case yonder." That sort of thing made his old Yorkshire cyes twinkle, and did me no harm. He had a sort of pulpit desk where he would sit and keep the books, read and write, and overlook the shop. He was a fine old man, and an interesting personality. One remark he made was with reference to pricing. There was a lot of dispensing, and frequently of the kind that One remark he made was with reference to pricing. There was a lot of dispensing, and frequently of the kind that would warrant an increased charge—a special journey to the City perhaps. He said it was a mistake to price these in the heat of the moment; he often felt that, say, 3s. 6d. would be his charge, but looking at it later on, he considered something less would be fair. There is a good deal to be said for the indoor system as we enjoyed it at Pont Street. The backless quarters were very some surfaction with Street. The bachelor quarters were very comfortable, with drawing-room and pianoforte, and visitors for the man on duty. Needless to say, there was the usual "pub" next door. The assistants here generally stayed several years—which is not to be wondered at, for the catering was first-rate; and although we went out for amusement and distraction, we did not require generally produced the street of the catering was first-rate; and although we went out for amusement and distraction, we did not require generally produced the street of the street o traction, we did not require supplementary feeding, which was something to be thankful for. The remarkable feature of the pharmacy was the very light retail. The list of customers would have pleased Svengali, with his love of

He haut ton.

A few years later found me back in Newcastle joining Mawson & Swan, Mosley Street. I was to manage their branch at Tynemouth. Here I made the acquaintance of the late Joseph Roberts for the first time. He was a result. the late Joseph Roberts for the first time. He was a remarkable man, with peculiar mannerisms and a sarcastic tongue, and a smile (or sneer) that inspired more hatred than I should have thought possible. He amused me immensely from the start. He had a way of breathing through his nose after one of his sneers that was quite inimitable. I can only interpret it with a dash.——. Thus, introducing me to one of the staff, he would say as soon as the man's back was turned, "Not quite one of our stamp, Mr. P.; more like a butcher ——' For staff there were Mr. Roberts, two assistants, two apprentices, a lady assistant for putting up stock, a porter, and an errand-boy. J. R. for putting up stock, a porter, and an errand-boy. J. R. went through it all as if he were conducting something went through it all as if he were conducting something vest. When he departed for his vacation everyone seemed much on the alert. It appeared that he had been known to start in the train, get out at Gateshead, and return through the back entrance, presumably in the hope of finding the staff in a condition of hilarity. A little incident shows the sort of character he was. I had gone off for the afternoon, and on arriving back the next morning found are rejudent disputable, and all the goods about the floor. afternoon, and on arriving back the next morning found one window dismantled and all the goods about the floor. His explanation was that he had suddenly conceived a plan of window-dressing, had got everything out, and found he had only time to catch his train. I dare say that I might have settled there but for a curious incident. One afternoon two ladies came in with a prescription for a mixture and pills. The former was for a solution of hydrarg, bichlor, in tinet, cinchonæ. In conformity with practice I asked for the patient's address—which seemed to rather put them cut; however, they took the pills, promising

o have the drops another day. About a week later I got a letter from Mr. Barnard Proctor offering me the nanagership of his Grcy Street shop under himself. He ame down to see me, and then I understood that the little lot was a test of my work as a dispenser. He thought I had been perhaps a little too particular, but it decided mim in regard to my discretion, for he made me a very lecent offer. In the event I joined him in Newcastle.

During my stay here I met with, for the first time, one of Mawson & Swan's photographic catalogues. It dealt, of ourse, mostly with the collodion processes, but the "dry late" was being experimented with. I got in with some very enthusiastic amateurs and went in for the work largely. I was consulted on the matter of wet collodion baths long

was consulted on the matter of wet collodion baths long pefore I got practical acquaintance with them. The relatino bromide plate ousted all that very soon, and I got in even better with the new plates. But the trouble we had with them no one to-day would imagine. It was nothing with them no one to-day would imagine. It was nothing emarkable to leave a negative washing under a flow of vater, and on going to take it out find the film missing—ust a glass plate left. The film would be found in the ink on the way to the drain. Sometimes it could be saved, fone had an alum bath at hand. At one period it was lardly wise to develop a plate unless a "safe edge" of ollodion had been first put round the edge. Dry plates were at the time so erratic that if a customer got a good ample he invariably hurried back to buy up the remainder of the batch, if possible. They were very early days in the natter of bromide prints and enlargements. I believe I was the first to use the new paper—single sheets from natter of bromide prints and enlargements. I believe I was the first to use the new paper—single sheets from Morgan & Kidd, 1s. 6d.—in exhibition work. The general ule was to use the best lenses to be had, and to centre on harpness. And in the matter of lenses some of the proessionals were amusing. If one of them had a good lens t was treasured as of untold price, put under the pillow at hight and so on

It was in these years also that the question of patentutting became acute. Those in demand wore "cut" rather
reely by one or more local grocers. Chemists—as eververe not at all united on the matter, but I suppose we simply
ad to fall into line and make the best of it. Barnard
Proctor was practical as usual, fixing the low price for cash,
at standing out for a higher charge for booking.

In all the places referred to, it was dispensing all the
ime. At Proctor's, indeed, on certain days in the week,
was a case of all hands at the work for the most part
the day. Even the "old man" himself had to leave
is studies and research, gird himself with an apron, and
ake his share. I suppose that every pharmacist has a copy
f Proctor's "Pharmacy." It is typical of the man and the
lace. All the apprentices were taken through it religiously,
got on well with him, liked and admired him. He was an got on well with him, liked and admired him. He was an leal pharmacist and, in my view, a brilliant chemist, but it too modest. From the city and county analyst downards he was the man for a knotty point in chemistry. The thing I remember vividly was his habitual use of carbon in the city and county analyst. he thing I remember vividly was his habitual use of carbon isulphide in testing. In season—and out—one's nostrils rere constantly being assailed with it. One day a lady sked him for some preparation which had been mentioned to er for inhalation for neuralgia: she said it was carbon mething or other. I at once thought she meant carbon itrachloride, which I had sold when at Corbyn's: but efore I could get a word with him he had produced his ottle of CS2 and allowed her to take a sniff—quite a nose-ul, one may say—which nearly choked her. Apart from hat mossible large he appeared to know everything that and anowed her to take a shin—quite a nose-il, one may say—which nearly choked her. Apart from lat (possible) lapse, he appeared to know everything that ent on in the retail the country over, though as a fact he ad never been away from his own shop.

My final essay in the district was with Joseph Roberts.

Iany tales were current about his persuasive tongue. He

said to have on one occasion practically emptied a man's ockets by persuading him to take half a dozen big bottles his celebrated —. The man, who had come to town for his celebrated —. The man, who had come to town for his celebrated — the man, who had come to town for he day, turned up later to beg him to take some of it back,

At one time he suggested closing all his shops for three contls. Fie thought this would be a fine advertisement. It appeared to have an idea that the result of such a move ould be that he would soon be asked by a deputation of is fellow-townsmen to reconsider the matter in the interests of the public. At the time he had taken on a lease some we premises in the Bigg Market. All the branches were to concentrated here. In the basement was to be set up the audiill outfit. A finger sign outside was to indicate to andhill customers where they were expected to show themelves. On the ground floor, New Bridge Street: on the est floor, Clavton Street—each to have its own dispensing epartment. I suggested a fear of overlapping, and that istomers might not like being shepherded; naturally they ould go, I thought, to the place nearest of reach. But is fellow-townsmen to reconsider the matter in the interests

the die was east, and the place subsequently opened with the fittings put in as he had outlined.

This practically ended my career with what it was customary to eall "the legitimate." After that I went in more for dentistry, a branch of practice I saw much of as an apprentice and had always kept touch with, giving this up to join Boots, Ltd. But that is another story.

Vanillin from Pimento-leaf Oil.

EARLY in the year we referred on several occasions to the fact that the Government of Jamaica had authorised a special expenditure for the construction of apparatus for the distillation of oil from pimento-leaves at the Government laboratory. As this oil, according to a report of the Imperial Institute (C. & D., March 20, p. 72), con-tains 89 per cent. of eugenol, the Government now propose to manufacture vanillin on a co-operative profit-sharing basis with the growers of the leaves. The Director of Agriculture (the Hon. H. H. Cousins) has the matter in hand, and at a meeting of agriculturists at Mandeville on July 24 (which is reported in the Jamaica "Gleaner" of July 29) he outlined the proposals, indicating that the contemplated new industry was due entirely to the suggestion of the Governor, Sir Leslie Probyn, who had noticed that the nice-smelling pimento-leaves were thrown away when the crop was picked. This "pimento-leaf" idea was, in due official course, sent to Mr. Cousins, who confessed that he viewed it as unlikely to lead to business, because nearly twenty years ago he had distilled the oil from pimento-leaves, expecting to get a scent like "bay rum," whereas he got an oil smelling like plum-pudding, that no one would care to use as scent. However, as in duty bound, he acquired the assistance of their agricultural instructor, Mr. Powell, who obtained some good Manchester pimento-leaves, dried them very carefully, and sent them to Hope. These leaves were then sent to Professor Dunstan at the Imperial Institute, who in due course reported that they contained 2.9 per cent. of essential oil and 89 per cent. of eugenol, the oil being valued at 14s. to 20s. per lb. in London. As eugenol can be converted into vanilla or "vanillin," this was a very important result, and the Department of Agriculture at once began to consider the basis of an industry. They were indebted to their local member for his support to the Government proposal that an industrial chemist, who had special knowledge of organic chemistry, should be added to the staff, whereby they had secured the services of Mr. Campbell, a competent scientist, who was there to show them his results on "pimento oil." Mr. Campbell had recently made a most important discovery—namely, that by the fermentation of pimento-leaves the oil spontaneously changed to "iso-eugenol," the half-way product in the preparation of vanillin. In other words they could in the field or perhaps in the silo, by natural fermentation of the leaves, effect a chemical change that would cost time and money to effect in the factory by chemical means. Mr. Cousins felt justified in asserting that Jamaica would shortly be able to assume the position of the vanillin monopolist of the world. He defied the growers of cloves in Africa or of cinnamon-trees in Ceylon to compete with the wild pinento-tree of Jamaica as a source of vanillin. Now, if they gave this business away what would happen? "The Jamaica Vanillin Co., Ltd.," would be incorporated. The corporation would make all the profits, and the growers of pimento would only get a minimum price for their leaves. It looked as though by co-operation pimento-leaves could be made to yield 30s. to 40s, per 100 lb. He advocated the establishing of a vanillin co-operative factory at Grove Place, where leaves would be bought, and to every seller a receipt given that would entitle the holder to a bonus from the share of profits at the end of crop. Pimento oil from the larger growers who would distil their own oil would also be bought and converted into vanillin on profit-sharing lines. He desired that the full profits of the vanillin industry should go, as far as possible, to the growers of the pimento-leaves. They were importing a larger steam boiler from England, and he hoped before long to be able to start on a small commercial basis at Grove Place.

Act Dispensing. Insurance

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

middlesex.—The annual report of the Pharmaceutical Committee has been issued by Mr. Hugo Wolff, secretary. Among the items in the report are the following:

The minimum statistical data for 1919, which do not include sanatorium benefit prescriptions, give the following figures: Number of prescriptions, 866,732; total cost of prescriptions, 28,4071. 15s. 9d.; average price of ingredients, 4.1d.; average fee for dispensing, 3.8d.; average per prescription, 7.9d. The average cost increased from 8.2d. per script in 1918 to 9.4d. in 1919, while the average cost per prescription increased from 7.1d. to 7.9d. Though the cost per insured person increased from 1s. 7½d. in 1918 to 1s. 8¼d. in 1919, it is estimated that an addition of 8 per cent, to the chemists' accounts would have been required to make them equivalent to what they would have been under the 1915 system of payment. Regarding the terms for 1920, the Committee state that having originally advanced a claim for the payment to panel chemists of dispensing fees equivalent to an average of not less than sixpence per prescription, the Committee decided later to join forces with other Committees which were demanding an addition of 50 per cent, to all dispensing fees, as such an increase would at the time have brought the Middlesex minimum up to sixpence. After prolonged negotiations, the Ministry of Health offered instead a permanent increase of 50 per cent. on the 1916 dispensing fees, with a continuance for 1920 of the addition of the war bonus of 1.2d. per prescription. This meant that the dispensing fee for an ordinary mixture would be advanced from 40d, to 54d, and other fees The minimum statistical data for 1919, which do not This meant that the dispensing fee for an ordinary mixture would be advanced from 4.0d. to 5.4d., and other fees in proportion, the increase on the 1919 fees being estimated at approximately 35 per cent., while a further small advantage would accrue as a result of slight modification in the proportion of the proporti tage would accrue as a result of sight modification in the pricing arrangements, in accordance with which 0.1d. was to be the minimum price allowed for any ingredient in a prescription. The Conference at which these terms were communicated voted in favour of their acceptance, and, prescription. The Conterence at which these terms were communicated voted in favour of their acceptance, and, after giving the fullest consideration to the matter, the Middleex Committee unanimously resolved to recommend panel chemists to continue service on the proposed terms for 1920. Though it was estimated that the new terms for 1920 would show an increase of approximately 35 per cent. on the 1919 dispensing fees, the actual increase for the first three months of 1920 amounted to less than 32 per cent. with the result that the average dispensing fee was only 5.0d., instead of approximating more nearly to sixpence per prescription. Accordingly, when the Middleex Committee was requested by the Pharmaceutical Society to formulate its demands for 1921, it was decided to press the original case for payment of an average dispensing fee of not less than sixpence per prescription. All necessary statistics concerning prices and payments have been regularly forthcoming during the year, such information being usually available in the case of Middlesex at an earlier date than in other areas. After careful consideration it was decided, as a temporary measure, to forego the monthly advance payments to chemists. The Prescription Checking Department reported that such a modification would tend to facilitate regular payment of the complete accounts.

WALES.

Glamorgan .- The report of the Pharmaceutical Committee on the work accomplished during 1919 has been issued. The number of prescriptions dispensed was as follows:

Total cost	Prescriptions	Insured persons for whom doc- tors prescribe	redie	Av. dispensing fee, per pre- scription	Total cost, per prescription	Av. cost per insured per- son	Frequency per insured per- son
2 6,4 2 4 <i>l</i> . 6 <i>s</i> . 7 <i>d</i> .	690,018	171,580	5.64	3.54	9.19	36.96	4.02

The totals for the seventeen Insurance Committees covered by the Welsh Pricing Office are: 5.00 | 3.62 | 8.63 | 28.80 | 3.33 58,855l. 4s. 2d | 1,635,936 430,425

The following is a comparative statement of the average cost of prescription and per insured person:

GLAMORGAN		WALES			
	Prescrip- tion eost	Cost per insured person	Prescrip- tion cost	Cost per insured person	
1916 1917 1918 1919	6.25 <i>d</i> . 6.65 <i>d</i> . 8.11 <i>d</i> . 9.19 <i>d</i> .	21.30 <i>d</i> . 21.37 <i>d</i> . 33.68 <i>d</i> . 36.96 <i>d</i> .	6.01d. 6.44d. 7.79d. 8.63d.	18.37d. 19.06d. 23.80d. 28.80d.	

The total cost of the Pricing Bureau of Wales in 1919 for pricing of prescriptions is 1,817l. 17s. 7d., of which total the Glamorgan Insurance Committee's share is 764/. 4s. 8d. The total prescriptions dealt with are: 1916, 1,247,403; 1917, 1,310,574; 1918, 1,523,867; 1919, 1,635,936.

August Drug Tariff.

The following are the alterations for August in the drug tariff for England and Wales issued by the Ministry of Health:

The following are the alterations for August in the drug tariff for England and Wales issued by the Ministry of Health:

Lower.—Acid. citric. pulv., 6s. 9d. lb.; butyl-ehloral hyd., 7s. 8d. cz.; crosost. carb., 5s. 6d. cz.; emp. saponis, 6.0d. sq. ft.; ext. ergotez, 22s. cz.; ext. cryot. liq., 42s. lb.; ferri et ammon. cit., 7s. 8d. lb.; menthol, 3s. 4d. cz.; ol. anis, 6jd. cz.; ol. caryoph., 24s. 6d. lb.; ol. lini, 12s. gal.; ol. ricini, 1s. 4d. lb.; oxymel scillæs, 1s. 5d. lb.; paraldehyd. 10d. cz.; phenazon., 2s. 4d. cz.; pot. cit., 8s. 6d. lb.; resorchum, 3s. 6d. oz.; sodii. benz. (artificial), 7jd. cz.; sedii salicylas (cryst.), 6s. 8d. lb.; syr.puns. 1s. 10d. lb.; syr. cinum, 3s. 6d. oz.; sodii. benz. (artificial), 7jd. cz.; sedii salicylas (cryst.), 6s. 8d. lb.; syr.puns. 1s. 10d. lb.; syr. codeinæ phosph., 5s. 4d. lb.; syr. ferri iod., 4s. 2d. lb.; syr. pruni virg., 2s. 10d. lb.; syr. rhei, 3s. 4d. lb.; syr. scillæ, 2s. lb.; syr. sennæ, 5s. 2d. lb.; syr. roid., 4s. 2d. lb.; syr. pruni virg., 2s. 10d. lb.; syr. rhei, 3s. 4d. lb.; syr. scillæ, 2s. lb.; syr. sennæ, 5s. 2d. lb.; syr. tolut. 2s. 3d. lb.; syr. zingib., 2s. 8d. lb.

Lighter.—Acaciæ gunnmi pulv., 3s. 8d. lb.; acetanilidum, 6jd. cz.; acetum ipecac., 3s. 8d. lb.; acetum scillæ, 10d. lb.; acid. carbolic. (detached crystals), 3s. 1d. lb.; acid. carbolic. liq., 2s. 9d. lb.; acid. hydrocynn. dil., 4jd. oz.; acid. nit. dil., 8d. lb.; acid. hydrocynn. dil., 4jd. oz.; acid. silcylic., 5s. 9d. lb.; acid. hydrocynn. dil., 4jd. oz.; acid. silcylic., 5s. 9d. lb.; acid. hydrocynn. dil., 4jd. oz.; acid. silcylic., 5s. 9d. lb.; acid. hydrocynn. dil., 2s. lb.; acid. silcylic., 5s. 9d. lb.; acid. hydrocynn. dil., 2d. oz.; acid. silcylic., 5s. 9d. lb.; acid. hydrocynn. dil., 2d. oz.; acid. silcylic., 5s. 9d. lb.; acid. silcylic., 5s. 9d. lb.; acid. phosph. dil., 7dd. lb.; acid. silcylic., 5s. 9d. lb.; acid. silcylic., 5s. 9d. lb.; acid. hydrocyli. dil., 9d. lb.; acid. silcylic., 5s. 9d. lb.; acid. silcylic., 5s. 9d. lb.; acid. silcylic., 5s. 9d. lb.; acid. silcyl

September 4, 1920

THE CHEMIST

16 sq. in.; emp. hydrarg., 9.5d. per sq. ft.; emp. picis, 6.0d. per sq. ft.; emp. presine, 6.0d. per sq. ft.; empl. petroleic Appoph, B.P.C., 5s. h; ext. aloes pulv., 5s. 3d. lb.; ext. bellad. liq., 1s. 5gl. oz.; ext. bellad. sice, 1s. 11d. oz.; ext. bellad. vir., 13s. 6d. lb.; ext. cance. him. ind., 26s. oz.; ext. casc. sagr. sice., 1s. 5gl. oz.; ext. casc. sagr. liq., 4s. 8d. lb.; ext. inlice liq., 2s. 6d. oz.; ext. glycyrrh. liq., 6s. 3d. lb.; ext. hydromen liq., 11s. 5d. lb.; ext. uncis von. sice., 1s. 5d. oz.; ext. opii sice., 5s. oz.; ext. nucis von. sice., 1s. 5d. oz.; ext. opii sice., 5s. oz.; ext. nucis von. sice., 1s. 5d. oz.; ext. opii sice., 5s. oz.; ext. wibsur. liq., 7s. lb.; ferri sulph. 6gl. lb.; ferri sulph. esci.ce., 11d. lb.; glycer. acid. tannic., 6s. lb.; glycer. bellad., B.P.C., 2s. lb.; glycer. acid. tannic., 6s. lb.; glycer. bellad., B.P.C., 3s. 6d, lb.; glycer. bellad., B.P.C., 3s. 6d, lb.; glycer. bellad., B.P.C., 3s. 6d, lb.; glycer. bellad., B.P.C., 3s. 6d, lb.; hydrargyrum cleat., 8s. 9d. lb.; inf. carantifect. oz.; hydrarg. iod. rubr., 1s. 10d. oz.; hydrarg. sovid. flav., 1ls. 5d. lb.; hydrargyrum.c. creta, 4s. 9d. lb.; inf. carantifect. oz.; hydrarg. sovid. flav., 1ls. 5d. lb.; inf. carcyoph. fee conc., 3s. 3d. lb.; inf. carantife. (ex. conc.), 5s. 5d. lb.; inf. carantife. (ex. conc.), 4s. 3d. lb.; inf. sentence. conc.), 4s. 1d. fl. sin. sentence. conc.), 4s. 1d. fl. sin. sentence. conc.), 4s. 6d. lb.; inf. ammon. 3s. 9d. lb.; lin. sentence. conc.), 4s. 6d. lb.; inf. carantife. conc., 6s. 6d. lb.; inc. popti

lb.; tr. cannab. ind., 34s. 6d. lb.; tr. cantharidini, 9s. 6d. lb.; tr. capsici, 5s. 9d. lb.; tr. cardam. co., 4s. 4d. lb.; tr. catechu, 4s. 9d. lb.; tr. chlorof. et morph. co., 13s. 3d. lb.; tr. chlorof. et morph. co., 13s. 3d. lb.; tr. chlorof. et morph. co., 13s. 3d. lb.; tr. digitalis, 6s. 6d. lb.; tr. ferri perchlor., 2s. 4d. lb.; tr. gelsemii, 6s. 8d. lb.; tr. gent. co., 4s. 4d. lb.; tr. guaiaci ammon., 10s. 9d. lb.; tr. hamamel., 5s. 3d. lb.; tr. hyoscyami, 8s. 2d. lb.; tr. loval fort., 11s. 3d. lb.; tr. iodi mit., 8s. 2d. lb.; tr. nucis vom., 6s. 2d. lb.; tr. lobel. eth., 12s. 3d. lb.; tr. nucis vom., 6s. 2d. lb.; tr. opii, 6s. 10d. lb.; tr. opii ammon., 6s. 2d. lb.; tr. scille, 5s. 6d. lb.; tr. strophanth., 9s. 3d. lb.; tr. valerian. ammon., 7s. 6d. lb.; tr. zingib., 8s. 2d. lb.; ung. ac. boric. flav., 1s. 8d. lb.; ung. ac. carbol., 2s. 10d. lb.; ung. ac. salicyl., 3s. 2d. lb.; ung. bellad., 1s. 6d. oz.; ung. chrysarobin., 3s. 4d. lb.; ung. gallæ c. opio, 8s. 4d. lb.; ung. glyc. plumbi subacet., 4s. lb.; ung. hyd. am. dil., B.P.C., 4s. 3d. lb.; ung. hyd. oxid. flav., 2s. 10d. lb.; ung. hyd. oxid. flav., 2s. 10d. lb.; ung. hyd. ox. rubr., 3s. 10d. lb.; ung. paraffin. flav., 2s. 10d. lb.; ung. paraffin. alb., 2s. 6d. lb.; ung. paraffin. flav., 1s. 8d. lb.; ung. paraffin. flav., 2s. 10d. lb.; ung. paraffin. alb., 2s. 6d. lb.; ung. paraffin. flav., 1s. 8d. lb.; ung. paraffin. flav., 2s. 10d. lb.; ung. paraffin. flav., 2s. 10d. lb.; ung. paraffin. flav., 2s. 10d. lb.; ung. paraffin. flav., 2s. 6d. lb.; ung. paraffin. flav., 1s. 8d. lb.; ung. prics liq., 3s. 2d. lb.; ung. plumbi iod., 6s. 2d. lb.; ung. prics liq., 3s. 2d. lb.; ung. plumbi iod., 6s. 2d. lb.; ung. prics liq., 3s. 2d. lb.; ung. plumbi iod., 6s. 2d. lb.; ung. prics liq., 3s. 2d. lb.; ung. plumbi iod., 6s. 10d. lb.; vinum antimoniale, 3s. 10d. lb.; zinci oxid., 1s. 5d. lb.; zinci sulphocarb., 3s. 6d. lb.; zinci oxid., 1s. 5d. lb.; zinci sulphocarb., 3s. 6d. lb.; zinci oxid., 1s. 5d. lb.; zinci sulphocarb., 3s. 6d. lb.; zinci valerian., 3s. oz.; z

Business Changes.

BOOTS, LTD., Market Place, Kingston-on-Thames, have acquired the adjoining premises in order to carry out extensions.

Mr. C. H. Tracy, chemist and druggist, Bedford Park, London, W., has acquired the business of Mr. H. Hillier, Ph.C., Church Road, Hove.

GEORGE DURRANT & SON, chemists, Old Cross, Hertford, have had their premises altered so that the optical and photographic departments are now separated.

Mr. RALPH SCRAFTON, chemist and druggist, Ludlow, has acquired the business of Mr. W. Boor, High Street, Wisbech. Mr. Boor passed the Modified examination in

Mr. J. W. Varley, chemist and druggist, has taken over the business of Mr. R. Leithead at 58 Milton Street, West Hartlepool. Mr. Leithead had carried on the pharmacy for thirty-five years.

Schweppes, Ltd., the aërated-water manufacturers, have acquired the lease of Marble Arch House, 1 Connaught Place, Hyde Park, London, W., to which the head offices of the company have been transferred.

Mr. H. O. LLOYD, chemist and druggist, President of the Birmingham Pharmaceutical Association, has purchased the business of the late Mr. J. Balcomb, chemist and druggist, Suffolk Parade, Cheltenham. Mr. L. G. Edwards, chemist and druggist, will be the manager.

Mr. A. P. Ledsham, F.S.M.C., chemist and druggist, has purchased the business of Mr. A. Wood, Ph.C., High Street, Brentford, who has spent fifty-six years in this business and is now retiring. Mr. Ledsham, prior to joining H.M. Forces, was in business in Wimbledon, London, S.W.

DUDOK DE WIT EN MATTHES & BURMEESTER, of Amsterdam, inform us that their partner, Mr. C. van Eeghen, has retired. Collective procuration has been given to Mr. H. van Eeghen, son of Mr. C. van Eeghen. Mr. C. W. Swertz, who has held the procuration of the firm for more than thirty years, has also retired.

Mr. J. E. WHITAKER, chemist and druggist, has acquired the business of Mr. H. B. Healey, chemist and druggist, Street Lane, Roundhay, Leeds. Mr. Whitaker, who was for six years manager and co-director with Dr. C. Symes, Ph.C., Liverpool, was previously with Reynolds & Branson, Ltd., Leeds, and the late Mr. W. Martindale, Ph.C., London.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary" 1920, p. 308.

(From "The Trade-marks Journal," August 11, 1920.)

"MEXAP"; for chemicals (2). By W. H. Hosking, 2 Church Street, Cheltenham. 404,183.
"CEREGUML" on label device; for a medicinal food (3). By B. F. Sanchez, 49 Corredera, Montilla, Cordoba, Spain. 397,324.

Spain. 597,524.

MAYOUCINE" and "Porolline"; for all goods (2) and (3). By J. G. L. Pommerol, 16 and 17 Devonshire Square, London, E.C. 2. 403,483/4.

"Fenam"; for medicines (3). By W. W. Sims, 33 Nun's Moor Road, Newcastle-on-Tyne. 404,075.

"Tiny-Tor," with device of baby on seal with firm's name (seal device disclaimed); for indiarubber goods (40), for food substances (42), and for perfumery, etc. (48). By the United Drug Co., Greenleaf Street, Boston, U.S.A. 402,511/12/13. (Associated.)

"Muntona Malt Extract" on circular device; for malt extract (42). By Munton & Baker, 34 Mark Lane, London, E.C. 3. 402,737.

"Sarita"; for perfumery, etc. (48). By II. Bronnley & Co., Ltd., Warple Way, Uxbridge Road, London, W. 3. 404,698.

404,698.

(From "The Trade-marks Journal," August 18, 1920.)

"Sunc"; for chemicals (2). By Watson & Sons (Electro Medical), Ltd., 43 Parker Street, Kingsway, London, W.C. 2. 403,581. (Associated.)

"Petal."; for caustic soda (1). By United Alkali Co., Ltd., Cunard Building, Pier Head, Liverpool, 403,551.

"Tungaline"; for chemicals (1). By Sissons Brothers & Co., Ltd., Bankside, Sculcoates, Hull. 404,990.

"Chlorocide"; for chemicals (2). By Murphy & Son, Ltd., 3 and 4 Queen Square, Leeds. 402,800.

"Lycresol"; for a disinfectant (2). By Southall Bros. & Barclay, Ltd., 19-21 Lower Priory, Birmingham. B 403,740.

Barclay, B 403,740.

"Shakespeare." across diamond-shaped devices; for chemicals (2). By the Shakespeare Manufacturing Co., Ltd., 7 Denman Street, London, S.E. 1. 403,865/911. (Associated.)

Ciated.)

"Germocaust"; for chémicals (2). By J. Lebolo-Carey, 2 Pier Head Chambers, Cardiff. 404,189.

"Abolico"; for powder and liquid disinfectants (2). By M. H. Barlow, 164 Vauxhall Road, Liverpool. B 404,727.

"SUPEROL Brand Ortho Oxychinoline"; for a medicinal chemical (3). By Amsterdamsche Superfosfaatfabriek, 81 Maliebaan, Utrecht, Netherlands. 394,351.

"Mannakent," with device including Kent coat-of-arms; for a medicated preparation (3). By W. B. Fitch, 143 High Street, Rochester. 400,328.

"CITRYLIC"; for medicinal chemicals (3). and for essential

145 High Street, Rochester. 400,326.

"CITRYLIC"; for medicinal chemicals (3), and for essential oils, etc. (42). "Apus"; for medicinal chemicals (3). "Lyra," "Andromeda," and "Mars"; for medicinal chemicals (3) and for food substances (42). By Linton, Hubbard & Andrew, 72-75 Fenchurch Street, London, E.C. 3. 401,222/3; 402,917; 402,919/20/21/22/23/24. (Associated.)

E.C. 3. 401,222/3; 402,917; 402,919/20/21/22/20/21.

(Associated.)

BLUE MOON," with device of half-moon; for toilet powders (48). By Henry Tetlow Co., corner of Tenth and Cherry Streets, Philadelphia, U.S.A. 400,574.

"EUDENTYL"; for perfumery, etc. (48). By Sangers, 42A Hampstead Road, London, N.W. 1. 401,652.

"HEBE BLOOM"; for toilet cream and face powder (48). By E. Rimmel, Ltd., 1A Darnley Road, Hackney, London, E. 9. B 403,744.

"TARSHAMADE"; for toilet and hair preparations (48). By J. Sparkes, 20 Imperial Buildings, Ludgate Circus, London, E.C. 4. 404,545.

"DERULIS" and "PANORAS"; for perfumery, etc. (48). By G. H. Morgan and S. H. Asling, 83 Lordship Lane, Wood Green, London, N. 22. 404,826/7.

(From "The Trade-marks Journal," August 25, 1920.)

"POMONA"; for chemicals (1). By Prescott & Co., 1 Oswald Street, Hulmc, Manchester. 403,100. (Associated.)
"Denofa"; for chemicals (1). By De Nordiske Fabriker De-No-Fa Aktieselskap. 43 Carl Johansgade, Christian

De-No-Fa Aktuesetskap. 45 Carl Jonansgade, Christiania, Norway. 403,552.

"K O M O" and facsimile signature; for all goods (1).
By Paton, Calvert & Co., Ltd., Binns Road, Old Swan,
Liverpool. 404,223. (Associated.)

"Keux"; for all goods (1). By the Chemical Research
Co., Ltd., 72 Coombe Lane, Wimbledon, S.W.19. Co., L 404,436.

"Oldas"; for chemicals (1). By the H. J. Humphries & Cooper Smelting Corporation, Ltd., Sandridge Road,

Cooper Smelting Corporation, Edg., Balkit Rigo Look, St. Albans. 404,986.

"Esfer" on diamond device; for chemically treated socks (2). By G. G. Schobert, 302 Brixton Hill, London, S.W. 2. 402,019.

"Keysco"; for disinfectants (2). By Keymer, Son & Co., 1 Whitefriars Street, London, E.C. 4. 403,241.

"EXTERMINO"; for a vermin destroyer (2). By the Extermino Chemical Co., Ltd., 28 Watling Street, London, F.C. 4. B, 403,805.

mino Chemical Co., Ltd., 28 Watling Street, London, E.C. 4, B 403,805.

"Velvas" and "Eradiweed"; for all goods (2). By Robinson Bros., Ltd., Phœnix Street, Ryders Green, West Bromwich. 404,363/4.

"VITRULE"; for medicinal chemicals (3). By G. W. Carnrick Co., 23-27 Sullivan Street, New York, U.S.A. 335,218.

rick Uo., 20-21.
395,218.
"Harvo"; for all goods (3). By R. Winter, Ltd., Lawley Street, Birmingham. 397,347. (Associated.)
"RESISTOLS BRAND MEDICATED LOZENGES"; for medicated Lozenges, etc. (3). By W. H. Freeman, 52 Macdonald

lozenges, etc. (3). By W. H. Freeman, 52 Macdonald Street, Birmingham. 397,601.

Solente Brand Pills": for medicinal chemicals (3). By W. M. Branley, 87 Holyhead Road, Handsworth, Birmingham. 399,514.

CHEERIO BRAND HEALTH SALTS"; for medicinal salts (3).
By E. A. Medworth, 9 Thistlemoor Road, Peterborough. 400,776.

"ACCO BRAND ACETYL-SALICYLIC ACID"; for medicinal acetyl-

ACCO BRAND ACETYL-SALICYLIC ACID"; for medicinal acetyl-salicylic acid (3). By Albany Chemical Co., 2-24 Broadway, Albany, U.S.A. 401,119.

DORZONE" under monogram "W T D" ("Dorzone" disclaimed); for medicinal chemicals (3) and for perfumery, etc. (48). By W. T. Dawes, 15 King Street, Plymouth. 403,026/7. (Associated.)

Dyspersoids"; for medicinal chemicals (3). By A. Moss, 7 Grand Hotel Buildings, Compton Street, Eastbourne, 403,397.

403,397.

403,397.

NORDREEZE"; for medicinal chemicals (3) and for perfumery, etc. (48). By J. Barbour & Sons, Ltd., 5 Market Place, South Shields. 403,443/4. (Associated.)

GLOWWELL LINIMENT" on oblong label; for liniments (3). By Evans Sons Lescher & Webb, Ltd., 56 Hanover Street, Liverpool. 403,941. (Associated.)

JONLIC"; for medicinal chemicals (3). By A. Joensson Co., Inc., 100 John Street, New York, U.S.A. 404,259.

Pelican"; for medicinal chemicals (3) and for perfumery, etc. (48). By C. Davies, 374 Old Kent Road, London, S.E. 1. 404,386/7. (Associated.)

YOGENE"; for a pile medicine (3). By W. A. Roiley, "Braemar," (Islindale Avenue, The Hyde, London, N.W. 9, 404,540.

OMNEVIT"; for a medicine (3), By W. H. Martindale, 10 New Cavendish Street, London, W. 1. 404,925.

"OMNEVIT'"; for a medicine (3). By W. II. Martindale, 10 New Cavendish Street, London, W. 1. 404,925. "BISUMAG"; for medicinal chemicals (3). By Bismag, Ltd., 7 Wybert Street, Munster Square, London, N.W. 1.

7 Wybert Street, Mills 19 Wybert Street, Mills 19 Wybert Street, Mills 19 Wybert Street, Marmite Food Extract Co., Ltd.. 59 Eastcheap, London, E.C. 3. B 404,589. "Downblly"; for face powders (48). By A. W. Wilkinson, 24 North Road, Clapham, London, S.W. 4. 401,578. "Junamil"; for perfumery, etc. (48). By S. W. Eburne, 96 Piccadilly, London, W.1. 404,387.

96 Piccadilly, London, W. 1. 404,387.

(From "The Trade-marks Journal," September 1, 1920.)

Device formed of letters "BP" on circle; for chemicals (1 and 2) and for medicinal chemicals (3). By Bolss & Pinto, Ltd., 29 Mincing Lane, London, E.C. 3. 402,637; 400,711; 402,638. (Associated.)

"Socony," etc., on circular device; for chemicals (2), for medicinal chemicals (3), and for goods (47). By Standard Oil Co. of New York, 26 Broadway, New York, U.S.A. 403,809/812/814. (Associated.)

"DIMMEX BRAND LIQUID EXTRACT"; for a medicinal extract (3) and for a bread improving liquid (42). By the British Diamalt Co., Anchor Street, Bishop's Stortford, Herts. 402,137/8. (Associated.)

"OF I," with device of palm tree; for all goods (3) and (48). By Naamlooze Vennootschap Oliefabrieken Insulinde, 12-14 Doëlenstraat, Amsterdam, Holland. 395,970/974. (Associated.)

"Togal."; for medicinal chemicals (3). By Kemiska Central-Laboratoriet, 33 Jakobsbergsgatan, Stockholm,

OGAL''; for medicinal chemicals (3). By Kemiska Central-Laboratoriet, 33 Jakobsbergsgatan, Stockholm,

Sweden. 404,371.
EUREXINE BRAND A PREPARATION FOR MEDICINAL OR CURATIVE PURPOSES"; for a medicine (5). By the Eurexine Drug Co., Ltd., 169 Mary Street, Balsall Heath, Birmingham, 404,567.
CUSHLETS"; for medicinal chemicals (5). By J. N. Nichols & Co., 203A Chapel Street, Salford, Manchester, 465,163.

"Cushlets";

Trade Report.

42 Cannon Street, E.C. 4, Sept. 2.

THERE is slightly more activity in the chemical and drug markets, but the orders are mostly hand-to-mouth, and buyers have the advantage, with very few exceptions. The immediate commercial outlook is dominated by labour disputes, and if the strike of miners should take place many chemical and other manufacturers are likely to close down-in fact an intimation to this effect has been given. Among drugs a fair quantity of Matto Grosso ipecacuanha changed hands after the auction last week. Senega has been selling freely of late, but prices of new crop now show a distinct rising tendency. Ergot is firmer, and not so irregular. Cascara sagrada can be bought at previous prices. Menthol is lower, with mall spot sales. Japanese refined camphor is the turn esier. Balsam tolu is also easier. Lycopodium is still carce, and firmer. Coriander and fenugreek seeds are learer, canary is firmer, and caraway steady. Nux vomica is too dear to permit of business in new crop. Pharmaceutical chemicals continue extremely quiet, and rices at which they can be imported. Acetanilide, benz-ldehyde, benzoic acid, hydroquinone, methyl-sulphonal, dium bromide, phenacetin, salol, sulphonal, calcium actate, resorcin, and hexamine, are all cheaper to buy. Thymol is firmer. Mercurials are 5d. per lb. lower, ollowing a reduction in mercury as the result of Italian ompetition. Acetic acid is easier. Other changes inlude a sharp advance in petroleum and lower prices for ermilion and beeswax.

Higher	Firmer	Easier	Lower
enzols oriander-seed enugreek-seed etrol etroleum hellac (Oct.) oda oxalate oda phosphate	Lyce po lium Peoper, white Muntok (c.i.f.) Thymol	Acetanilide Acetic acid Balsam tolu Benzaldehyde Benzoic acid Camphor (Jp. ref. slabs) Formaldehyde	Antimony Benzonapl.thol Buckthorn-bark Calc. lactate Coca-leaves (Amst. auction) Cream of tartar (Span. forward)
		Hydroquinone Lead acetate Mastich Methyl- sulphonal Nut oil Oxalic acid	Farina (Jp.) Hexamine Lithopone Menthol Mercurials Mint oil (Jp.) Peppermint oil
		Paraldehyde Phenacetin Pot. permang. Salol Soda bromide Soda sulphide Sulphonal Tartaric acid	(Amer.) Quicksilver Resorcin Soda nitrite Soda prussiate Vermillon Wax, bees'

Cablegrams.

New York, September 1.—Business is fair. Pepper-int oil in tins is lower at \$6.50 per lb. Mexican sar-parilla has been reduced to 38c., and buckthorn-bark 35c. per lb. Quicksilver is \$5.00 cheaper at \$75.00 per ottle. Formaldehyde is quoted at 47c. and hexamine at 2.15 per lb., being lower. Senega has advanced to \$1.25

Amsterdam, September 2.—At the auction of Java cocaaves held to-day, the demand was small and the tone ull, only the equivalent of 812 kilos. alkaloids being isposed of, out of 4,899 kilos. offered. The average oit paid was 14.44 cents, against 23.24 cents paid at the revious auction.

ACETANILIDE is selling at from 3s. 6d. to 3s. 9d. per lb., cording to quantity, on the spot. It cannot be sold at profit at 3s. 6d. at the present low American exchange,

d German makers are asking a higher price.

ACETIC ACID is in fair demand, but in view of the rger imports, prices favour buyers. Clacial of Contiental make (99 to 100 per cent.) in carboys can be had at from 1101. to 1151. per ton ex wharf; 80 per cent. pure is about 901., and technical 851. per ton in casks.

ALBUMEN is steady at 4s, 9\frac{1}{2}d. per lb. for prime Chinese egg, and for August-October shipment sellers quote 4s. 8d.

AMIDOPYRIN is very slow of sale, and the spot price of

42s. 6d, per lb. can be eased for quantity.

AMMONIA SULPHATE.—Owing to the increase in railway rates, the Ministry of Agriculture and Fisheries has been obliged to sanction an increase of the agreed maximum prices for sulphate of ammonia by 3s. 6d. per ton in the case of all deliveries made on or after September 1, except when such deliveries are in fulfilment of existing unconditional contracts for delivery at the original prices. The original maximum prices will also remain in force for deliveries made ex works.

Anise, Star, Oil is quiet and easier, with spot sellers of "Red Ship" brand at 4s. 2d. per lb.

Antimony.—There is no change in regulus, which remains slow, and very little interest attaches to crude, of which spot lots are held for about 40!. per ton, but business in parcels affoat could probably be done at 381. c.i.f.

Arsenic.—The demand is slow and the price of white Cornish powdered is about 74l, per ton delivered London. Grecian agents have nothing to offer, as producers are booked months ahead.

Aspirin.—Dealers offer at from 4s. 9d. to 5s. per lb., according to quantity, indicating a slightly easier market; demand continues very quiet.

Balsam Tolu is easier, with spot sellers at 6s. per lb. Benzaldehyde is easier at from 5s. 6d. to 5s. 9d. per lb.

Benzoic acid ex toluol is quoted at 3s. 8d, to 3s. 9d. per lb., being on the easier side.

Benzonaphthol is cheaper, importers offering at from

14s. to 14s. 6d. per lb., as to quantity.

BERGAMOT OIL.—A Palermo advice, dated August 26, reports that holders have succeeded in maintaining their prices, but the rise in foreign rates of exchange has made

Bromides.—Potassium is selling at round about 2s. 6d. per lb. for small lots of crystals, and less for quantity. Sodium is easier, with sellers at 2s. 10d., and ammonium is 38.

CADMIUM is firm at 7s. per lb., but second-hand lots can be had at slightly less.

CALCIUM LACTATE is offered at from 5s. 3d. to 5s. 9d.

per lb, for B.P., according to quantity. Camphor (Refined).—Japanese $2\frac{1}{2}$ -lb, slabs are quiet and easier, with spot sellers at 6s. 9d. per lb.

CANARY-SEED is firm, with business done in good Morocco at 170s., and screened Plate at 140s. per quarter. Cannabis Indica valued at 700l. has been received from The spot price of fair Bombay tops is 35s. per lb.

CARAWAY-SEED is steady at 398, per cwt. for Dutch and

20s. for stalky Morocco.

CASCARA SAGRADA.—It is reported that most of the cheap parcels have been cleared; either new or two-yearold bark could probably be obtained at about 98s. per cwt.

Cassia Oil is dull at 7s. 9d. per lb. for 80 to 85 per cent. c.a.

CITRIC ACID is easy at about 4s. 6d. per lb., and for ton lots slightly less would be accepted. Stocks are plentiful on spot.

CLOVES are quiet, with fair Zanzibar offering at from 1s. 6d. to 1s. 7d. per lb. and sales thereat; October-

December delivery is quoted at 1s. 6d.

Cod-Liver Oil.—The Norwegian market is extremely quiet, and prices are tending lower. The exports from Norway up to August 15 were 24,500 barrels. In London,

agents offer at 285s, per barrel, c.i.f.
COPPER SULPHATE.—In some quarters a somewhat better export demand is reported, but the market shows considerable irregularity. Makers have perforce taken a little more notice of the constant increase in the value of rough bar copper, the supply of which is, moreover. steadily being reduced to meet the needs of foreign sulphate-makers and also for conversion into refined metal, which commands a very high premium chiefly because of

the low American exchange. While orders are said to have been possible at Liverpool lately at about 42l. per ton f.o.b. in casks, less 5 per cent., quotations either here or at Manchester are now about 45%. f.o.b. There is apparently some keen competition for business, but there seems an impression that prices should harden, given a more regular demand.

CORIANDER-SEED is dearer, sales having been made at 19s. per cwt. for good Morocco, 18s. 6d. for fair, and 15s.

for slightly wormy.

CREAM OF TARTAR.—There has been a sharp decline in Spanish for forward delivery, October-November shipment offering at 250. per ton c.i.f. for guaranteed B.P. (99 to 100 per cent.). The spot market is unsettled in view of the anticipated miners' strike; should this materialise stocks here are likely to appreciate in value considerably.

CUMIN-SEED has been sold at 36s, to 40s, per cwt. for

fair to good sifted Morocco, being steady.

EGG-PRODUCTS are quiet, with Chinese liquid hen-yolk offering at 90s. per cwt. for old and 115s, for new; to arrive, August-October shipment is quoted at 1028. oa. c.i.f. Dried whole native is 11d. spot; dried yolk is 10d., and sprayed whole egg 1s. 10d. per lb., all spot.

Ergot is firmer at from 16s. to 17s. per lb. on the

spot, and to arrive 16s. c.i.f. is quoted.

EUCALYPTUS OIL is maintained in value, sellers quoting

from 2s. 9d. to 3s. per lb. for B.P. oils.

FARINA is easier, No. 1 Japanese offering at 31s. per vt. on the spot, and afloat at 31s. c.i.f. The value of cwt. on the spot, and affoat at 31s. c.i.f. sweet is 30s. 6d. spot.

Fenugreek-seed is dearer, 15s. 9d. per cwt. having

been paid for fair Morocco, and now 16s, is asked.
FORMALDEHYDE is easier in sympathy with American prices, spot offering at 320s, per cwt., and for fair quantity 3178. 6d. to 315s. is quoted.

Galls are steady, Chinese plum-shaped offering at 175s. per cwt. spot and 155s. c.i.f.; ordinary shape are 155s.

spot and 140s. c.i.f.

HEXAMINE is slightly cheaper following the decline in America. Spot holders offer at from 15s. to 15s. 6d.

Hydroquinone is easier at from 98.49d. to 108. per lb. IPECACUANHA.—Subsequent to the auction last week a fair quantity of slightly sea- and water-damaged Matto Grosso was sold from the catalogues at from 13s. 9d. to 14s. per lb. A small business has also been done in sound Matto Grosso at from 16s. to 17s. per lb., the latter for good.

LEAD ACETATE has declined slightly, white crystals offer-

ing at from 881. to 901. per ton in casks.

LEAD-PRODUCTS.—There has been no alteration in the position, and the movement of business in either whitelead or oxides is more restricted. The market in raw material is closely observed by corroders, and a renewed advance is spoken of for this week in view of the fresh manœuvring for higher prices. There has been far too much manipulation in pig-lead for some time past to induce confidence in the merchant trade for allied products. One thing is certain, and that is that there is not going to be a lead-famine. The squeeze in America is on the wane, having been relieved partly from this side. An important factor is that the Australian production of the metal is now about to be restored. The manufacture of white-lead in that country is being quietly developed.

LEMON OIL continues dull at from about 5s. 9d. to 6s. 3d. per lb. on the spot. A Palermo advice, dated August 26, states that the total lack of demand from abroad continues to depress the position, as there are always a few needy sellers, and the offers of such parcels cause a decline without actual business. Foreign exchange rates have risen still further, and this reduces the figures in foreign cur-

rency.

LIME OIL.—About 100 packages (mostly cases) have

arrived from the West Indies.

LINSEED OIL.—The home demand is not so good, but there is renewed interest for export to the Continent, and crushers have not the least difficulty in selling all they The market seems steadier at near 80l. per ton for London spot, and in Hull 76l. 10s. is quoted.

LITHOPONE.—Importers have eased the price owing to better supplies, and offer 30-per-cent. at 48l. to 50l. per ton in casks on the spot.

Lycopodium continues scarce and rather firmer at from 15s. to 16s. per lb. for treble-sifted. Arrivals valued at

1,1081. has been received from Poland.

Mastich is easier, fair tear offering at 5s. 9d. per lb. Menthol is lower, with spot sales of Kobayashi-Suzuki at 33s. to 31s. per lb., the latter price being paid on Wednesday. To arrive, August-October shipment has been offered at 27s. 6d. c.i.f.

MERCURIALS .- Following on the reduction in mercury, makers of salts have reduced their prices by 5d. per lb. The list price of calomel is now 6s. 10d., and corrosive sublimate 6s. 5d. per lb., with the usual reduction for

quantities.

METHYL SULPHONAL is easier, importers offering at from

43s. to 44s. per lb., according to quantity.

MINT OIL.—Japanese dementholised continues dull, and easier, with sellers of Kobayashi-Suzuki at 8s. per

lb. on the spot.

Nux Vomica continues scarce and dear, with shippers of Cochin asking 70s. c.i.f. for new crop, which does not permit of business. Recent business includes Calcutta at 56s. for September-October shipment, and Madras at 60s. c.i.f. for October-November shipment. Owing to U.S. kuying some Indian shippers are booked up to the end of the year.

OPIUM.-The London market is unchanged, with a small business passing, including Persian at about 50s. per lb., and Turkey druggists at 19s. 6d. per lb. The new regulations have overshadowed the market for the time being, but there is no disposition on the part of importers to sell their goods at lower prices in conse-

quence.

SMYRNA, August 7.—The sales this week on our market amount to 11 cases, at 18s. 6d. for new crop and 19s. 6d. to 20s. 6d. per lb. c.i.f., as to quality, for old. The exchange to-day is piasters 418 per pound sterling for cheque on London and \$0.89 for one Turkish paper pound. The arrivals are 32 cases, against 212 at same date last year. The stock in Smyrna in first and second-hands is about 700 cases. The crop is estimated at about 4,000 cases, and stocks of old crop in the interior about 6,000:

SMYRNA, August 14.—The sales this week on our market amount to 20 cases at 17s. 6d. to 21s. per lb., as to quality. The principal feature to be noted is that the arrivals from the interior have jumped up from 32 cases to 132, or a

the principal reasure to be noted is that the arrivals from the interior have jumped up from 32 cases to 132, or a round number of 100 cases in a week. Should these important arrivals continue for a few weeks longer we shall very soon replenish stocks, and thus we hope to see an easier market. The exchange stands to-day at piasters 418 per pound sterling for cheque on London and \$0.88 for one Turkish paper pound. The arrivals are 132 cases, against 285 at same date last year.

OXALIC ACID is easier, forward offering at 2s. 4d. and

prompt delivery at 2s. 5d.Paraldehyde is easier, importers offering at from 4s.

to 4s. 6d. per lb., according to quantity.

The Pepper is steady, but quiet, the spot value of fair black Singapore being $6\frac{5}{8}d$. per lb.; the sales to arrive include September-November and October-December shipment at 7d. to $6\frac{7}{8}d$. per lb. c.i.f. Lampong is 7d., Tellicherry $7\frac{3}{4}d$., and Aleppy $7\frac{1}{4}d$. per lb., all spot. At auction 220 bags Tellicherry offered, and part sold, at $7\frac{5}{8}d$. for good; 64 bags fair Aleppy sold at 7d. White pepper is steady, with spot sellers of Muntok at 1s. 3d.: to arrive September-November and Octoberat 1s. 3d.; to arrive, September-November and October-December shipment has been sold at 1s. 03d. to 1s. 14d. per lb. c.i.f., from 300 to 400 tons having been sold. Singapore is 1s. 2d. on the spot, and September-December shipment has been sold at 1s. c.i.f.

PEPPERMINT OIL.-No definite prices appear to be available for the new American crop, and little interest is displayed at the moment. Spot "Wayne County" could

probably be obtained at about 38s. per lb. Petroleum has been advanced by $2\frac{1}{2}d$. per gal. to 2s. $4\frac{1}{6}d$. per gal. for ordinary refined and to 2s. $5\frac{1}{4}d$. for water-white.

PHENACETIN is about 6d. per lb. cheaper, importers offering at from 13s. 6d. to 14s. per lb., according to quantity, the lower price being for cwt. lots.

PHENAZONE is quoted at from 21s. to 22s. per lb. PIMENTO is quiet, with spot sales at 4d. per lb.

PLATINUM remains unsettled, the current price being bout 29l. per oz., with palladium standing at 28l. Business is chiefly a matter of negotiation, and in both sses no very reliable quotations are obtainable.

POTASH PERMANGANATE is quoted at from 4s. to 4s. 3d.

er lb. on the spot.

Potash Sulphoguaiacolate can be had at 198. 6d.

QUICKSILVER .- The sluggish character of the demand ately caused the leading importing firm to cut its price on Monday of this week by 2l. per bottle for Spanish o 19l., and on Wednesday there were sellers of Italian This is the first change made in that quarter rom 201. 10s. to 211. The variations in the open market ates for nearly two months, until the change made this veek, were of no great importance and entirely the

esult of outside competition in the Italian product. Whatever may be the reserve stocks in existence, which, lowever, are not believed to be of great importance, he sharp reduction by leading interests may be attri-buted to this competition, and possibly foreshadowing he advent of a large arrival from Spain. Nothing has come from the recent American inquiries made here brough dealers. The American market has been dull ately, with the New York price down to about \$75.00 per flask. Some 200 bottles were received there recently from Italy, and also a few parcels were re-shipped from anan.

RESORCIN is cheaper, importers offering at 18s. 6d.

Salicylates.—Salicylic acid B.P. has a continued easy andertone. Lots of 1 cwt. are offered at about 3s. per lb., and up to 3s. 6d. has been paid for small lots of English rystals. Sodium salicylate powder is 3s. 8d. to 3s. 9d., und crystals 48. 6d. per lb.

SALOL is easier, dealers offering at from 5s. 4d. to 5s. 6d.

SANDARAC.—Owing to scarcity has been selling at exremely high prices of late, up to 328s, per cwt. having been paid for good Morocco, and for dark and dusty 20s. is quoted.

Senega.—A very fair quantity of new crop has been ought for this market of late by consumers for Septemer-October shipment at the more attractive c.i.f. prices uling, but up to the present the arrivals have been few. In view of what appears to have been "bear" quotations from New York (with the idea of depressing prices t the source) some spot holders were lately induced to art with their goods at a very low figure. Prices for new crop have evidently touched bottom, and a rising endency is observable at about 7s. per lb. c.i.f. Spot prices are from 8s. 3d. to 8s. 6d., at which single bales have been selling.

SHELLAC has been steady, with spot sales of usual tandard TN orange quality at 670s. to 675s. per cwt.; ine Orange is 900s.; fine seconds 800s.; pure button 60s. AC garnet is 580s., GAL 550s., and I.G. 530s. futures are considerably dearer, the sales including Octo-

er at from 560s. to 595s.

Soda Salts.—Bichromate is in fair supply, and somewhat easier, offering at 1s. $7\frac{1}{2}d$ per lb. in casks. Bisulphite is firm. 60 to 62 per cent, powder offering at M, per ton in kegs and casks and at 52l, per ton in drums o.b. Caustic, 70 to 72 per cent. is easier at 36l., and 6 to 77 per cent. can be had at 39l. per ton. Nitrite 96 to 98 per cent.), electrolytic is 85l. per ton spot in asks, being cheaper. Oxalate is dearer at 1s. 11d. per bein long. b. in kegs. Phosphate is scarce and dearer, September lelivery offering at 45l, per ton for commercial crystals 98 to 100 per cent.) in bags. Yellow prussiate is in tood supply and cheaper, offering at 1s. 3d. per lb. in casks. Sulphide is firm at 59l. to 60l. per ton for concentrated 60 to 62 per cent. in casks. Cyanide is 8. per lb., basis 100 per cent. Hyposulphite is quoted t from 45s. to 47s. 6d. per cwt. for finest photo. pea rystals, which is still scarce. The bulk of the imports rom the United States appears to be commercial quality. SULPHONAL is easier at from 42s, to 43s, per lb.

TARTARIC ACID is selling at about 3s. per lb., which price could be eased for quantity.

THYMOL has been in better demand, and some of the cheap parcels have been cleared from dealers at from about 42s. 6d. to 45s., with the leading makers asking 47s. 6d. to 50s.

TURMERIC.—Market is well supplied, and prices are easy at from 35s. to 40s. for Madras finger.

Turpentine.—More important supplies of American spirit are said to be on the way to this side from Savannah, and although the London warehouse stocks may not be restored to the normal for some time, the spot position is easing by degrees, while users are buy-ing apparently only just what they want. As striking feature is, however, that the forward price into next year has already outstripped that of spot delivery by American technical Press of another upward move, and this may have the effect of creating more interest among speculators. The American portion is larger this season, but it will probably be easily taken care of by the replenishment of the very reduced world's stocks. It is to be apprehended that American manipulation will soon get the upper hand again when crop operations approach completion. The spot market closed on Wednesday at 142s. 3d. per cwt.

VERMILION .- Following on the reduction in mercury, makers have revised their prices, quoting from 6s. to

6s. 3d. per lb. net, as to quantity.

WAX, BEES'.-In view of the good stocks, prices of all grades (excepting Jamaica) are lower. Madagascar is 6*l*, 5*s*, to 6*l*. 10*s*. Mozambique 6*l*. 10*s*. to 15^l., East African 6*l*. 10*s*., and Morocco 6*l*. to 7*l*. per cwt.

Wood Oil is steady at 106s, per cwt. for Hankow

and 140s. for Hongkong.

German Drug and Chemical Markets.

In consequence of the slow but continued depreciation in In consequence of the slow but continued depreciation in the rate of exchange, speculators have had a more favourable opportunity of turning the position on the market to their account than has hitherto been the case. In certain circles there is an inclination once more to advance prices instead of acting energetically to bring about a decline. Naturally, in the face of the renewed depreciation in the value of the Courage outcome. Naturally, in the face of the renewed depreciation in the value of the German currency, it is impossible to reduce prices. On the other hand, the sense of duty in commerce should require that goods purchased at an advantageous rate of exchange be placed at the disposal of buyers on the best terms. In issuing its market report for the end of August a Hamburg wholesale drug-house states that the prices only hold good provided that the mark does not continue to depreciate at the same rate as during the past few days. Within a week the rate quoted for a pound sterling has advanced from 165 to 184.50 marks, and American and Dutch currencies have also advanced proportionately. Prices are quoted in marks per kilo. except where otherwise mentioned. where otherwise mentioned.

ACETIC ACID (80 per cent.), chemically pure, is m.12, ex-

clusive of container.

Aloes (Cape).—Spot, m.17.50; for delivery in September,

m.16; tare, 12 per cent.
Balsam Peru.—Ph. G.V. is quoted at m.285 in tins of 20 to 25 kilo., smaller amounts at m.295.
CAMPHOR.—Refined Japanese in 2½-lb, slabs is m.165 in cases, and smaller amounts at m.175.

cases, and smaller amounts at m.175.

CASCARA SAGRADA is quoted m.18 gross for net.

ELEMI.—White soft is expected in a fortnight, and is offered at the low price of m.42.50.

ERGOT is reported to be firmer abroad, and Spanish is scarcely obtainable under m.325 to m.335, according to quantity. A small amount of select German ergot is available at m.275 net.

Frangula-bark is m.12 gross for net.
Gentian.—Stocks are being rapidly cleared, and good quality is not obtainable below m.980 per 100 kilo., gross for

HONEY.—Fifty cases of Australian honey are lying in the free port, and are available only for export, not for inland use, at m.18.

HYDRASTIS is expected in the beginning of September at IPECACUANHA.—Spot is m.350 per kilo. in amounts of 50-100 kilos.; in smaller amounts at m.365 net. LIQUORICE-JUICE.—First quality Italian block in single cases is m.32; three to five cases at m.31.50.

Nux Vomica.—Foreign quotations show a very firm ten-

dency; 500 to 1,000 kilo. fine quality are available at m.11.50

SABADILIA-SEED is quoted at m.16.75 gross for net in amounts of 500 to 1,000 kilo.; for smaller amounts at m.17.25. SENEGA.—Spot is m.240 net inclusive, cut m.250; August-September delivery of new crop has been dealt in at m.150. SODIUM BICARBONATE.—Powder for foodstuffs is m.225 gross for net per 100 kilo.

Vanillin.—Pure 100 per cent. is quoted at m.1,350.

Italian Drug and Chemical Markets.

Owing to the abnormal conditions of the Owing to the abnormal conditions of the drug and chemical markets little business was possible during the first half of August, when the importations of chemicals practically ceased, but during the rest of the month a certain animation took place, and the demand on the part of the consumers increased. The prices of certain products receded further despite the rise in the foreign exchange, while others advanced considerably. Through the exhaustion of stocks a good number of products were unprocurable, to the great discomfort of purchasers and consumers and to the great discomfort of purchasers and consumers, and many firms placed large orders abroad, hoping to receive their goods before the exchange further declined. Through recent decrees the Italian Customs were authorised to consent directly to the importation of laboratory glassware of all kinds and to the expectation of laboratory glassware of

sent directly to the importation of laboratory glassware of all kinds, and to the exportation of betanaphthol. Some of the prices quoted on the Milan market are given below: Pharmaceutical Products, etc. — Boric-acid crystals, 7.60 lire per kilo.; yellow carbolic acid (95 to 97), 6.00 lire; lactic acid, 50 per cent., 7.00 lire; oxalic acid, 22.50 lire; hydrogen peroxide, 10 to 12 volumes, 1,50 lire; glucose, 45° Bé., 4.60 lire; naphthalene flakes, 2.50 lire; permanganate of potash, 34.00 lire; best white vaseline, 10.50 lire; best yellow vaseline, 8.75 lire; paraffined white vaseline, 8.00 lire; varefined vaseline, 8.00 lire; c. American refined of potash, 34.00 lire; best white vaseline, 10.50 lire; best yellow vaseline, 8.75 lire; paraffined white vaseline, 8.00 lire; yellow paraffined vaseline, 5.25 lire; American refined paraffin (126 to 128), 5.70 lire; American half-refined paraffin (118 to 120), 5.25 lire; Asiatic paraffin (60 to 61), 8.00 lire; Asiatic paraffin (54 to 56), 6.70 lire; Scotch paraffin, 6.50 lire; acetone, 13.00 lire; glacial acctic acid, 12.00 lire; chloride of magnesia, 1.10 lire; castor oil, medicinal, 9.70 lire; cod-liver oil, "extra," 12.50 lire; salleylate of soda, 41 lire; sulphate of magnesia, 0.95 lire; sulphate of quinine, 625 lire; citrate of quinine, 700 lire; refined camphor in tablets, 80.00 lire to 85.00 lire per kilo.

Drugs, etc.—Spanish oil of turpentine, 9.50 lire; American oil of turpentine, 9.50 lire; Ceylon cinnamon of first quality, 15.90 lire; cinnamon of second quality, 15.80 lire; cinnamon of third quality, 15.70 lire; cinnamon of fourth quality, 15.60 lire; glacial, 5.00 lire; chamomile-flowers, 15.00 lire; elder-tree twigs, 10.00 lire; Zanzibar cloves, 15.00 lire; mannite, 38 lire; nutmeg, 12 lire; Aleppo pepper, 4.25 lire; Java pepper, 3.40 lire; Bari mustard, 4.15 lire; pure liquorice extract in blocks, 11.50 lire; Tahiti vanilla, 98 lire; Spanish saffron, 4.60 lire; milksugar crystals, 19.00 lire; powder, 16.00 lire per kilo.

Heavy Chemicals.—English carbonate of soda, 85 lire; alum, 220 lire; borax, 625 lire; vellow prussiate of potash.

cent.), 90 lire; American carbonate of soda, 85 lire; alum, cent.), 90 lire; American carbonate of soda, 85 lire; alum, 220 lire; borax, 625 lire; yellow prussiate of potash, 2,000 lire; yellow prussiate of soda, 900 lire; cream of tartar crystals, 1,800 lire; chloride of ammonia (98 to 99), 650 lire; caustic soda (76 to 78), 260 lire; crystal soda, 85 lire; sulphate of soda crystals, 65 lire; sulphate of ammonia, 96 lire; bicarbonate of soda, 127 lire; bichromate of potash, 2,500 lire; carbonate of ammonia, 500 lire; chloride of ammonia, 98 per cent., 650 lire; chloride of lime, 120 lire; hyposulphite of soda, 150 lire; silicate of soda, 140° Tw., 160 lire; sodium sulphide (60 to 65), 555 lire per 100 kilos.

soda, 140° Tw., 160 lire; sodium sulphide (60 to 65), 555 lire per 100 kilos.

Perfumes, **Essences, cte.—Angelica-root, 1,000 lire; bergamot oil, 280 lire; Java citronella oil, 60 lire; eucalyptus oil, 60 lire; African geranium, 450 lire; Réunion geranium, 470 lire; Florentine orris, 8,700 lire; Aosta lavender, 300 lire; sassafras wood, 125 lire; lemongrass, 160 lire; lemon, oil, 65 liro; bitter almond oil, s.a.p., 325 lire; Florence balmmint, 175 lire; Piedmontese peppermint, 250 lire; Italian neroli oil, 900 lire; rose oil, 4,500 lire; Bulgarian rose oil, 9,500 lire; red thyme, 95 lire; ylang-ylang, 1,200 lire.

Italian Olive-oil Crop and Market

The Italian olive-oil tree suffered severely during August The Italian olive-oil tree suffered severely during August from the excessive dryness and heat, and in some cases there was a sensible fall of the fruit, whereas in others very mediocre olives were produced. Such cases were not, however, general, and the new crop has every indication of being good, the more so that the abundant rains that followed towards the end of the month have certainly saved the release for fourther wisfortunes. The disease found in the plants from further misfortunes. The disease found in

some parts does not appear so far to have propagated throughout the Peninsula. The olive-oil markets were quiet during August through lack of business, due to the majority of purchasers hoping for a marked reduction. Towards the end of the month a certain demand was, however, noted, owing to danger of prices advancing rather than diminishing. The prices quoted for olive oil were as follows in accordance with the different localities in Italy: At Parma, first quality, 15 to 18 lire; second quality, 8.50 to 9.00 lire; burning oil, 4.50 lire; at Reggio Calabria, pure, 15 to 17 lire; mixed, 11 to 12 lire; at Bergamo, first quality, 14.50 to 15.00 lire; second quality, 10.50 to 11.00 lire; at Porto Maurizio, superfine Riviera, 14.25 lire; fine, 14.00 lire; eatable, 15.50 lire; Bitonto, 15.00 lire; Bari, 14.00 lire; Fasano, 15.00 lire; Lecce, 14.00 lire; Gioia, 15.50 lire.

Java Cinchona.

The report of the Kina Cultuur Maatschappij Garoet of Amsterdam for 1919 states that as the company's stock of cinchona was sufficient to satisfy the obligations under the quinine agreement, the manager temporarily stopped harvesting as from July last year. As a consequence the harvest only amounted to 33,487 kilos. of wet bark, or 11,724 kilos, of dry bark. Out of the 18,615 kilos. of manufacturing bark of the 1918 harvest 14,710 kilos. were delivered to the Bandceng Quinine Factory, and 3,610 kilos. stored at Priok out of the 1918 harvest were shipped as a direct delivery to oversea quinine-makers. The company's stocks of bark on December 31, 1919, amounted to 15,605 kilos., of which 3,905 kilos. were from the harvest of the previous year.

Japanese Opium.

According to returns published by the Japanese Home Office, the production of opium in 1919 amounted to 455,845 kwamme (kwamme = \frac{1}{2} \text{lb.}), against 136,792 kwamme in 1918, or an increase of 315 kwamme. This (says the Tokyo "Weekly Druggist") may be regarded as a "record" production in Japan, as in the past the production had not exceeded 389 kwamme. The average percentage of morphine contained in the opium produced in 1919 stands at 12.68 per cent., showing a decline of 3 per cent. compared with 1918. In 1919 poppy was cultivated in thirty prefectures, against twenty-three prefectures in the previous year. The largest quantity of opium was produced in Osaka prefecture, Wakayama, Hyogo, Yamaguchi, and Saitama prefectures coming next in the order named. The amount of compensation paid by the Government for the purchase of opium in 1918 was Y.28,853, but in 1919 it reached Y.102,252. The production of opium in Japan during the last ten years is shown below:

			Kwamme	1	Kwamme
1910			10,845	·1915	 101,570
1911			15,648	1916	 307,760
1912			22,058	1917	 389,083
1913		114	29.675	1918	 136,792
1914	***		38,875	1919	 455,845

German Chemical Prices.

The following table shows the enormous advances in the prices of some German drugs and chemicals (in marks per

	1914	1917	Beginning of 1919	Middle of 1919	End of 1919
Quinine hydro-	44=	113.	137.	500	1200
Chloroform Silver nitrate Potash bromide Menthol recryst. Resorcin Potash iodide	1.40 55. (1910) 2 28. (1912) 6. 26.	5.20 145. \ 3.10 72. 15.50 32,50	6. 165. 3.75 160. 50. 127.	15 450 15 480 —	30 1050 60 1150 390 450

At the beginning of 1919 some of the makers held comparatively large quantities of bromide preparations, which were eagerly disposed of at m.3.75 per kilo., but this was shortly afterwards regretted. The part that export prices played is demonstrated in the case of yohimbine, for example. At the beginning of 1919 quantities of 5 kilos. could frequently be had at m.11,000 per kilo.; at the end of 1919 they were asking m.30,000, because the export prices had meanwhile risen to m.62,000. In the middle of 1919 English borax compounds at about m.6 were driving down the German market price of m.28, but owing to the rate of exchange the prices rose again to from m.12 to m.14 at the end of 1919. At the beginning of 1919 some of the makers held comend of 1919.

Arrivals of Drugs, Chemicals, etc.

The following products have arrived at the ports named: Liverpool

(July 27 to 31).

Chemical products, etc.:
Argol (Fr.), 1,249 bgs.
Beta naphthol (N.Y.), 104 brls.
Bismuth oro (Ch.), 708 bgs.
Calc. tartrate (Fr.), 230 bgs.
Saltpetre (E.I.), 1,416 bgs.
Tartar (Fr.), 231 bgs.
Drugs, crude, etc.:
Cuttlefish bone (Fr.), 12 cs.
Gentian (Fr.), 18 bls.

London (August 4 to 9). emical products,
(Cologne) 7 cs

(Cologne) 7 cs.
Acetanilido (Hamb.), 11 pkgs.
Acetic acid, (Holl.) 65 dmjns.,
(N.Y.) 149 brls.
Allyl alcohol (Swe.), 8 brls.
Ammon. carb. (Cologne), 100

Ammon. chlor. (Hamb.), 47

Argol, (It.) 83 pkgs., (Port.) 430 bgs. Arsenie, (Hamb.) 80 cs., (Port.) 91 cks. Barytes (Germ.), 141 cks. 55

Betanaphthol (Germ.), 4 cks. Bromides: (Germ) 40 cks.;

Potash chloride (Holl.), 72

cks.
Potāsh oxalate (Holl.), 15 cks.
Potash prussiate, (Germ.) 2
cks., (Fr.) 18 cks.
Salicylic acid (N.Y.), 148 brls.
Saltpetre, (Belg.) 14 bgs.,
(E.I.) 1,000 bgs.
Silver nitrate (Denm.), 2 cs.
Soda caustic (Holl.), 20 drms.
Soda hyposulph. (N.Y.), 31
brls.

Soda hyposulph. (N.Y.), 31 brls.
Soda phosph. (N.Y.), 38 brls.
Tartar (1t.), 665 brls. 54 cks.
Tannic acid (Belg), 10 pkgs.
Tantaric acid (It.), 110 kgs.
Thorium nit. (N.Y.), 31 cs.
Zinc oxide, (N.Y.) 200 brls.,
(Antw.) 450 pkgs.
Drugs. crude, etc.: Herbs and barks (N.Y.), 88 pkgs.; roots,
(It.) 12 sks., (Santos) 20 bls.,
(Bahia) 40 bgs.
Balsams (Holl.), 30 cs.
Calumba (E. Af.), 486 bgs.
Cardamoms (E.I.), 121 cs.
Cinchona, (E. Af.), 44 bgs.,
(Jv.) 100 bls., (Holl.) 61 pkgs.
Coca (Jv.), 25 bgs.
Cod-liver oil (R'dam), 50 cs.
Digitalis (Germ.), 85 bgs.
Ergot (Port.), 23 cs.
Laurel-leaves (It.), 10 bls.
Liquorice-juice, (It.), 10 bls.
Liquorice-juice, (It.), 10 cs.,
(Sic.) 55 cs.
Manna (Sic.), 12 cs.
Myrrh (E.I.), 40 bgs.
Olihanum (E.I.), 86 cs.
Orris (It.), 41 pkgs. 36 bls.
Quinine, (Holl.) 3 cs., (Jv.)

Chemical

rived at the ports named:
Liquorice (Fr.), 10 cs.
Tuba roots (S'pore), 45 bls.
Dyes and dyeing materials,
etc.: Alphanaphthylannine
(U.S.), 51 brls.; aniline dyes
(U.S.), 15 kgs.
Oils, fixed: olive (Fr.), 165 cs.
3 cks.; tea (Ch.), 1,500 cs.
Resin (Fr.), 1,295 cks.
Seeds: cotton, (E.I.) 25,424
bgs., (Holl.) 3,044 bgs.; palmkernels (W. Af.), 1,560 tons.
Wax: paraffin (U.S.), 708 brls.

Saffron (Sp.), 2 cs.
Squills (Malta), 34 bgs.
Tamarinds (E.I.), 175 cks.
Turmeric (E.I.), 100 bgs.
Glyco-heroin (N.Y.), 120 cs.
Gums, resins, etc.: Acacia,
(P. Sudan) 1,653 bgs., (E.I.)
220 bgs., (Aden) 376 bgs.;
benzoin (Jv.), 100 cs.; copal,
(Belg.) 207 bgs., (Jv.) 2,448
cs. 45 bskts.; cutch (E.I.),
258 pkgs.; damar (Jv.), 560
bgs.; karaya (E.I.), 451
bgs.; la[e: button (Cal.), 450
bgs.; la[e: button (Cal.), 450
cs. 288 chts., shell, 450 bgs.
2,057 cs. 1,089 chts.; resin.
(Fr.) 750 cks., (U.S.) 5,125
brls.; tragacanth (E.I.), 61
cs.

brls.; fragacanth (E.I.), 61 cs.

Honey (E. Af.), 250 cs.
Indigo (E.I.), 85 cs.
Oils, essential: Almond (U.S.),
1 cs.; bergamot, (Fr.) 1 cs.,
(It.) 5 cs.; cananga (Jv.),
2 drms.; cinamon-leaf
(Cey.), 35 cs.; citronella
(Jv.), 66 drms.; cubeb (U.S.),
1 cs.; copaiba (U.S.), 2 cs.;
geranium (Holl.), 1 cs.;
geranium (Holl.), 1 cs.;
gingergrass (Holl.), 1 cs.;
laurel (It.), 1 brl.; lemon
(It.), 24 cs.; lime (W.I.), 38
cs.; eucalyptus (Aust.), 376
cs. 100 cks.; peppermint
(U.S.), 5 cs.; rosemary (Sp.),
7 drms.; turpentine, (Fr.)
700 brls. 710 cks., (U.S.) 5,300
brls. Betanaphthol (Germ.), 4 cks. Bromides: (Germ.) 40 cks.; potnsh, 34 cs. 3 cks.
Butyric acid (N.Y.), 64 carb. Citric acid (It.), 100 kgs. Cobalt acet. (U.S.), 13 kgs. Cobalt sulph. (U.S.), 14 kgs. Copper iodide (Jv.), 20 brls. Cream of tartar, (Cologne) 35 brls., (Fr.) 70 bgs., (It.) 100 kgs. 30 brls. (Swe.) 75 brls., (Swe.) 75 brls., (Hydrochloric acid (Hamb.), 75 carb.

Hydrochioric acid (Hamb.), fo-carb.
Lead carbonate (It.), 34 cks.
Magnes, chlor., (Holl.), 63 cks.
110 brls., (Germ.) 25 cks.
Magnes, sulph. (Hamb.), 100
cks. cks.
Mercury (Holl.), 200 botts.
Milk-sugar, (Germ.) 40 cs.,
(U.S.) 150 brls.
Naphthalene (Malta), 52 brls.
Oxalic acid (Holl.), 12 cks.
Potash caustic (Holl.), 350

brls.
Petroleum jelly (U.S.), 235 brls.
Seeds: Canary (Moroc.). 500
bgs.; copra (E. Af.), 156 bgs.;
cotton (S. Amer.), 13,019
bgs.; fenugreek (Moroc.) 618
bgs.; (E.I.) 56,373 bgs.; sunflower (Beira), 654 pockets.
Spices: Arrowroot (Sautos), 50
bgs.; chillies, (E. Af.) 49
pkgs, 365 bgs., (N.Y.) 325
bgs.; ginger (E.I.), 17 cs.;
mace (Jv.), 3 bls.; nutmegs
(Jv), 8 bls.; pepper (Jv.), 71
bgs.

bgs..
Waxes: (E. Af.). 38 bgs.; bees'.
(Beira) 117 bdls. 361 bgs. 159
pkgs., (Hamb.) 13 brls.;
ceresin (Hamb.), 120 bgs.;
paraffin, (U.S.) 8,550 brls.
346 bgs., (Denm.) 142 bgs.,
(E.I.) 1,280 bgs.

Liverpool

(Angust 4 to 8).

(Angust 4 to 8).

Chemical products, etc.:
Barvtes, (Antw.) 124 cks.,
(Holl.) 101 cks.,
Bromides: soda (Antw.), 17 cs.
Calc. acet. (U.S.), 2,886 bgs.
Calo. borate (Chile), 5,909 bgs.
Creosoto (U.S.), 10 brls.
Formaldedye (U.S.), 112 brls.
Iodine (Chile), 191 brls.
Lead, sugar (Antw.), 7 cs.
Magnes, chlor. (Holl.), 40 brls.
Potash, caustic (Holl.), 238
drms.
Saltpetre (E.I.), 1,952 bgs.

Saltpetre (E.I.), 1,952 bgs. Soda bichrom. (N.Y.), 17 brls. Soda bichrou. (N.Y.), 17 bris 22 cks. Soda caustic (U.S.), 94 drms. Soda nit., 11,039 sks. Drugs, crude, etc.: Cinchona (Mollendo), 62 bls. Coca (Mollendo), 250 bls. Condurango (Chile), 78 sks. Kola (W. Af.), 153 bgs. Quillaia (Chile), 54 bls.

Turmeric (E.I.), 300 bgs. Ginger (W. Af.), 24 bgs. Linalol oil (Texas), 25 cs. Seeds: Caraway (Holl.), 30 bgs.; Seeds: Caraway (Holl.), 30 bgs.; cotton, (Arica) 209 sks., (E.I.) 2,805 bgs.; ground-nuts (W. Af.), 15,106 bgs.; lin (E.I.), 8,852 bgs.; palm (W. Af.), 21,922 bgs. 209 tons; rape (E.I.), 2,538 bgs.
Waxes: Becs' (W. Af.), 10 bgs.; paraffin (E.I.), 320 bgs.

(July 31 to August 5). (July 31 to August 5).
Barytes (Bremen), 1,027 cks.;
betauaphthol (N.Y.), 171 brls.;
formaldehyde, (N.Y.) 168
brls., (Čan.) 55 brls.;
kieselguhr (Hamb.), 250 bgs.;
lithopone (Hamb.), 83 cks.;
phosphorus (Can.), 500 cs.;
seed: castor (E.I.), 678
bgs.; cotton (Alex.), 6,979
tons 2,240 bgs.; lin (E.I.),
6,101 bgs.; rape (Antw.),
1,320 tons.

Manchester (July 30).

(July 30).

Ammon nitrate (Norw.), 40 cks.; antimony salts (Hamb.), 12 cks.; erleium carbide (Norw.), 350 drms.; carbon tetrachlor. (Fr.), 32 cks.; lactic acid (Hamb.), 38 brls.; naphthol (Holl.), 8 crts.; phosphorus (Cau.), 500 cs.; soda acetate (Antw.), 40 cs.; soda cyanide (Fr.), 608 cs.; soda phosphate (Antw.), 57 brls.; soda pruss, (Fr.), 15 cs.; wax, paraffiu (N.Y.), 3,110 pkgs.

London

(August 10 to 16). Casein (Fr.), 15 cs.
Chemical products, ctc.:
(Germ.), 24 cs. 20 brls.
Acetic acid (U.S.), 83 brls.
Ammon. bromide (Hamb.), 67

Ammon. bromide (Hamb.), 67 cs.
Antimony (Ch.), 200 cs.
Argol. (Fort.) 334 bgs., (It.) 29 cks.
Argyrol (U.S.), 2 cs.
Barytes (Sp.), 687 brls.
Bismuth ore (Ch.), 17 bgs.
Bromine (Fr.), 300 cs.
Butyl alcohol (U.S.), 80 drms.
Calc. citrate, (S. Amer.) 40 cks., (Sic.) 104 cks.
Calc. tartrate (Sp.), 839 bgs.
Cream of tartar (Chili), 285 sks. 100 bgs. 260 brls.
Formaldehyde, (U.S.) 56 brls., (Swe.) 25 brls.
Glycerin (Holl.), 105 cks.
Magnes, chlor. (Holl.), 46 cks.
Mercury (It.), 98 flasks.
Milk-sugar (Holl.), 50 cs.
Naphthol (Holl.), 4 cks.
Oxalie acid, (Jp.) 31 pkgs., (Holl.) 21 cks.
Potask, not deser. (It.), 50 brls.

Potash, eaustic (Holl.), .317

drms. Potash chlorate (Holl.), 20 cks.

cks.
Potash evan. (Fr.), 17 cs.
Potash iodide (Jp.), 20 cs.
Potash pruss. (Holl.), 15 cks.
Salicylic acid (N.Y.), 112 brls.
Silver nitrate, (Hamb.) 3 cs.,
(Holl.) 45 cs.
Soda, caustic (N.Y.), 105 drms.
Soda hyposulphite (U.S.), 600
kgs. 485 brls.
Soda nitrite (Holl.) 27 cks

kgs. 485 brls.
Soda nitrite (Holl.), 27 cks.
Soda prussiate (Holl.), 6 cks.
10 drms. Stearie acid (Holl.), 13 bgs.
Sulphur (Sic.), 500 bags.
Tartar, (Fr., 75 bgs., (Sp.) 189 bgs., (Sic.) 54 cks., (It.) 21 cks. 194 bgs.

Tartaric acid (It.), 40 brls. 100

Thorium nit. (U.S.), 120 cs.
Zinc oxide (Antw.), 200 brls.
Drugs, crude, etc.: leaves (Fr.),
108 bls.: barks, roots (N.Y.), 144 pkgs.

Aloin (N.Y.), 10 cs. Ammoniacum (Busra), Ammoniacum pkgs. Anise, star (Ch.), 175 es Caffeine, (It.) 5 es., (Holl.) 5

candence, (FL.) 5 cs., (1601.) 5 cs.
Culumbe (Zanz.), 109 bgs.
Camphor, (Ch.) 410 cs., (Jp.) 125 cs.
Cantharides (Ch.), 40 cs.
Cardamoms (Cey.), 58 cs.
Chloral hyd. (N.Y.), 3 cs.
Cod-liver oil (Holl.), 50 cs.
Colchicum (Germ.), 5 bls.
Ergot, (Tort.) 65 bgs., (Sp.) 38 bgs.
Gulls (S'hai), 100 cs.
Gentian (Fr.), 23 bls.
Henbanc (Alex.), 67 bls.
Henna (Egypt), 124 bls.
Liquorice, (Fr.) 48 cs., (It.)
52 cs.

52 cs. Liquorice-root (Sp.), 93 bls. Menthol (Jp.), 270 cs. Nux vomica (E.I.), 84 bgs. 416 pockets

Nux vonnea (E.I.), 84 bgs. 416 pockets
Opinm (Fr), 8 cs.
Papain (Cey.), 19 cs.
Rhubarb (S'hai), 33 cs.
Scuna (E.I.), 143 bls.
Turmeric (E.I.), 173 bgs.
Fig syrup (U.S.), 8,252 cs.
Guns, resins, etc.: 24 cs. 366 bgs.; copal, (E. Af.) 12 cs..
(Holl.) 102 bskts., (Port.) 4 cs., (Belg.) 823 bgs.; damar (Straits), 119 cs.; lac: button (Cal.), 125 es.; shell (Cal.), 1,298 cs. 400 bgs. 597 chts.; stick (S'pore), 50 cs.; resin (Fr.), 1,059 cks.; sandarac (Moroc.), 282 bgs. 17 brls.

darae (Moroc.), 282 bgs. 17 brls.

olls, essential: (Sp.), 3 pkgs.; anisc, star (Ch.), 25 cs.; anisc, star (Ch.), 25 cs.; cananga (Jv.), 3 drms.; cassia (Ch.), 25 cs.; cinnamon leaf (Cev.), 5 cs.; citronalder (Holl.), 1 cs.; cucalyptus (Aust.), 2 cs. 7 pkgs.; lime, (Brit. Guin.) 3 cs.; lime, (Brit. Guin.) 3 cs.; lime, (Brit. Guin.) 3 cs.; orange (Can.), 47 cs.; palmarosa (Fr.), 4 pots; pctitgrain (Parag.), 10 cs.; roscinary (Sp.) 1 cs. 2 drms.; thyme (Sp.), 5 cs.; turpentine, (Fr.) 400 eks. 375 brls. (Port.) 180 cs.; ylang-ylang (Jv.), 1 cs.

olis, fixed: coconut (Jv.), 5,000 tons; groundnut, (Jp.) 11,000 cs., (Ch.) 12,786 cs., (Fr.) 215 drms.; olive, (Germ.) 259 cs., (Sp.) 75 cs.; palm (W. Af.), 64 cks.; rape (Jp.), 450 cs.; sova, (Jp.) 16,500 cs. (Ch.) 300 cs.; tea (Ch.), 3,000 cs. 307 eks.

(Ch.) 300 cs.; tea (Ch.), 3,000 cs. 307 cks.

Petroleum jeny (U.S.), 200 brls. Seeds: annatto (E.I.), 67 bgs.; apricot (Ch.), 280 lgs.; canary (Moroc), 1,420 bgs.; canary (Moroc), 1,420 bgs.; catton, (E. Af.) 1,000 bgs., (Alex.) 1,710 tons: cumin (Moroc), 500 bgs.; lin. (Ch.), 7,112 bgs., (E.I.) 2,825 bgs., (Moroc), 8,088 bgs.; palm (W. Af.) 17,621 bgs.

Sov (Ch.), 200 kgs.
Sov (Ch.), 200 kgs.
Spices: arrowroot (St. Vin.), 384 brls.; chillies, (Zan.), 5 bls., (N.Y.) 315 pkes; cinnamon (E.I.), 225 bls.; cloves, (Zanz.) 593 bls., (stems) 284 bls.; nutmegs (S'pore), 11 cs.; pepper (S'pore), 784 bgs.

Waxcs: becs', (E. Af.) 84 bgs. 60 chests 20 cs., (Moroc), 28 bgs.; carnauba (N.Y.), 214 bgs.; paraffin (U.S.), 2,572 brls.

(August 9 to 14).

Barytes (Antw.), 200 bgs.; manna (It.), 2 × ½ cs.; seed: cotton (Alex.), 9,023 tons; lin (E.I.), 91.668 bgs.; palm (Belg.), 1.859 bgs. 1,105



Letters for this section should be written on one side of the paper only. The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Drugs and Dysentery.

SIR,—"Another Irish Doctor," writing on the above (C. & D., August 28, p. 73), says "The therapy of chronic dysentery is in a very unsatisfactory state. Assuming that he is an open- and broad-minded man, we venture to suggest to "Another Irish Doctor" the advantages to be obtained by a careful study and investigation of the remedies employed by homœopaths. There are quite twenty of them given in Laurie's "Homeopathic Domestic Medicine," the principal ones being mercurius corrosivus, ipecacuanha, and arsenicum, the first mentioned of which is by far the most important. More minute details of the action of these remedies can be obtained by reference to Hughes's "Pharmacodynamics" and Clarke's "Dictionary of Materia Medica." We have before us at this moment a comparison of the mortality, "in private medical practice only," of the allopathic and homocopathic systems of treatment taken from the Board of Health reports in New York, Boston, Philadelphia, Newark, and Brooklyn, and under the head of dysentery it gives the mortality under allopathic treatment as 100 to 39 under homocopathic treatment. This evidence is surely convincing enough to suggest, even if not to dictate, to any medical man the advisability of putting these remedies to the test in such a fell disease. own experience, extending over a period of nearly forty years with people who have lived long in India and tropical climates, is that mercurius corrosivus is the sheet-anchor in the treatment of dysentery; and with those who are going out, for whom we have to fit up cases of remedies, it is quite a sine qua non dictum:

Be sure you put in merc. cor. for dysentery."

Yours faithfully,

LEATH & Ross.

SIR,—I have read with very considerable interest Dr. McWalter's letter (C. & D., July 31, p. 70), and also the letter of "Another Irish Doctor" (C. & D., August 28, The latter concludes by appealing to the pharmacist to place on the market a really reliable specific for chronic dysentery, and admits that the therapy of such cases is far from satisfactory. About twelve months ago you published an article of mine entitled "The Treatment of Dysentery' (C. & D., 1919, p. 843). During the war I was for some time chief pharmacist to the chospitals on the island of Manoel, Malta The medical staff included such experts on Eastern diseases as Frank Mackinnon, of Damascus, and Colonel Collie, I.M.S., Professor at the Bombay School of Medicine. The number of cases treated was between 20,000 and 30,000, and naturally the experience gained was great. Dr. McWalter's tribute to the old-fashioned treatment given by the I.M.S. is merited, for undoubtedly until 1914 the experience of Indian doctors in such cases was unique, but it does not say much for the pharmacologists to accept Dr. McWalter's statement of the means by which they deduced that "emetine cured dysentery." Until the outbreak of war the therapy of dysentery was in a decidedly experimental stage, and the greatest advancement had been made in sanitation and prevention. I am not quite clear as to what "chronic dysentery" means. On arrival in England dysenteric patients were sent to hospitals specially adapted for the treatment of dysentery and subjected to a course of treatment for about a month, and only when three stool tests had been proved negative were they allowed to proceed to a special convalescent depôt at Barton-on-Humber, where they again underwent a further course of treatment and tests. In the event of a stool or blood test proving positive a new course of treatment was commenced. The percentage of chronic or recurring cases

was very small indeed, and these were sent for special treatment and observation to one of the Schools of Tropical Such cases which again gave positive tests seldom refused to respond to treatment, but of the chronics the majority gave negative tests, but suffered from postdysenteric strictures, liver abscess, and pitted intestines. In such cases hourly 1-dram doses of a saturated solution of sodium sulphate induced a flow of secretion from the ductless glands, which acted as a lubricant and protection to the injured intestines and thereby gave relief to the patient. Further, as I stated in my previous article. half an ounce of tr. rhei co., administered in one dose, had such an effect on these cases that had only to be seen to be appreciated. The number of cases which had passed through the various hospitals and which after a period of twelve months' residence in this climate gave positive reactions to tests was infinitesimally small. On the other hand, where the organs were injured no art of the pharmacist could restore, and far from saving the cost of pensions to the State I consider that nothing can recompense these patients for the distressing conditions from or the distress. Yours faithfully,

Norman Blacow. which they suffer.

Ashton-on-Ribble.

The Lure of the Orient.

SIR,—I have hesitated to join in the interesting corrèspondence which has been appearing in your columns under the above heading, as my experience of the Orient has been as a doctor and not as a pharmacist. Your correspondent "Matram." (C. & D., August 28. p. 74) reminds me, however, that Mr. W. H. Saunders has not really visited the East as a pharmacist, but as a tourist. I was in India for sixteen years, and though employed as a doctor, I never forgot that I was a pharmacist, and I always took the keenest interest in the status and conditions of life of my less fortunate fellow-craftsmen. Now, there are no parts of the writings of Mr. Kipling which appeal so strongly to the resident in India as his poem, "Pagett, M.P.," and another to which I will refer later. I hope Mr. Saunders will not object to my comparing him with this famous creation of a man who knows India and the East generally as few Europeans do. Mr. Saunders visited the East during the tourist season, and found the climate delightful. I suggest that next year he spend the months of May and June in Bombay and Calcutta, and the months of July and August in Lahore. I assure him that he will find the lure of the Orient far from strong by this time next year. The chemist's assistant in India has the position and status of a head babu (native clerk) in a good commercial or Government office. The Europeans of his own class and educational standard are few and far between, and he is thrown on the underworld of the Anglo-Indian or Domiciled European community, as the Eurasians now like to call themselves. His pay sounds attractive in London, but ice, electric fans. and transport by horse, tram, or motor, which are luxuries in England, are absolute necessities under tropical skies. Through sheer boredom he may get entangled with some Eurasian girl-they are very attractive till twenty-and if he marries her he is doomed to perpetual exile. Let Mr. Saunders talk to one of these poor Europeans who have settled in the East, and he will wonder if he was wise in talking of the lure of the Orient. The poor fellow speaks of Home as we do of Heaven under these temperate skies, and usually he has a far greater chance of seeing the latter than the former. As a doctor long resident in the East, I have constantly before me an aspect of tropical life which none of your correspondents has even referred to-viz., that it is extremely difficult to spend three years in the East without acquiring some form of tropical disease. It is possible to do so if you have ideal surroundings, but even officers in smart regiments-apart altogether from campaigning—rarely complete a tour of service in an Indian cantonment without a "touch of fever" or a "go of dysentery." In practice at Home I am seeing a good deal of these "touches" and "goes," and I have no hesitation in saying that the man or woman who contracts tropical disease is crippled for years and perhaps for life. A large number of my patients at present are men who never had malaria or dysentery badly abroad, but are now seriously hampered in their wage-

earning capacity by the development of these diseases after they have returned Home. Have possibilities of this kind occurred to Mr. Saunders; and what wages will compensate an assistant who during his three years' engagement becomes the host of the malaria parasite or the micro-organisms of dysentery? The chemist's assistant in the East has to obtain all his assistance from natives, and although I have not worked in a pharmacy, I have done so in many hospitals with Indians of every race and breed. Some are good, many are excellent, but the bulk of them are heart-breaking to work for and with. It is utterly impossible to "get a move on" with them, and if you try you end up with a thorough appreciation of the short stanza of Kipling's to which I have referred above :

Oh! it is not good for the Christian's health To hustle the Aryan brown; For the Christian riles and the Arvan smiles, And he weareth the Christian down; And the end of the fight is a tombstone white With the name of the late deceased; And the epitaph trite, "Here lieth a fool," who tried to hustle the East.

Verbum sapienti satis est.

Yours sincerely, QUI HAI. (28/8.)

The Term "Adsorption."
SIR,—Arising out of "Xrayser II.'s" remarks as to the literal correctness of the modern word "adsorption," I note that "Murray" gives "Nature," vol. xxvi., 139 (1882), as an origin; while "Webster" (1911) amplifies the definition to the modern meaning now given to it in physical chemistry, a much fuller meaning than the components of the word indicate—which may be an advantage. Considering the etymology, however, Professor T. H. Key's "Standard Latin-English Dictionary" (Cambridge Press) gives the following three different Latin senses for "ad-" combined with verbs: (1) Motion to, as adeo; (2) addition, as addo; (3) nearness, as adsum. From which it would seem that the specially intimate nature of the connection is rightly suggested in the word "adsorption," although the "selective" character is not indicated. Yours truly, Wallasey. H. R. JENSON.

Cod-liver Oil in Consumption.

SIR,-The significance of a statement by Sir Leonard Rogers quoted in the "Medical Press" seems likely to be overlooked as, standing by itself, it does not seem interesting. Sir Leonard states, "The power of derivatives of chaulmoogra oils, and also of the hydnocarpus series of oils, to destroy acid-fast bacilli is in no way specific to that group, but is also possessed by an animal productcod-liver oil." Now, there are several acid-fast bacilli, but the most notable of them are the microbes of tuber-culosis and leprosy. We find, then, what nobody would have dreamt of thirty years ago, and what every scientist would have scoffed at during the past century, that codliver oil has a specific effect in destroying tubercle bacilli, and that the experience of physicians and pharmacists, as well as-of the intelligent public, as to its work in the earlier stages of pulmonary disease, is founded on a real specific effect which the oil has on the course of the disease, and which has only now been demonstrated by the pure scientists. Yours truly.

Dublin. J. C. McWalter, M.D., F.L.S. (20/8.)

Chemists' Side-lines.

SIR,—The report from the "Manchester Guardian Commercial" (C. & D., August 21, p. 66) stating that Boots, Ltd., are likely to take up the sale of tobacco, cigars, etc., is, if correct, an interesting development of the American style of drug-store trading, and will presumably, following on the same lines, be extended to candy and soda fountains. From the point of view of the pharmacist proper, the more of these innovations the better, as the British public as a general rule does not take kindly to these methods. Most retail chemists come across instances of this attitude almost daily, and there is no doubt that the personal connection counts as much in the drug-trade as ever it did. and it will repay pharmacists to look after it. Perhaps with the extended syllabus for the Qualifying examination, and the four thousand hours'

work now required, in time the whole thing will eventually right itself, and pharmacy will get back to the pharmacist and fancy goods be left to the bazaars.

Yours faithfully,

SIGURRO. (21/8.)

Qualification Certificate.

SIR.—As a recently qualified chemist and druggist, I should like to know the reason of the change in the Qualification certificate. The new one is merely a bit of stiff paper, 11 in, by 6 in., and does not even bear the seal of the Society. I think that when one has paid 10l. 10s. for examination a record of success is worth something better than the present certificate. I do not even know the names of any of the Examining Board, and other fellows I have asked are equally in the dark. Is this insignificant diploma given as an inducement to qualified men to become members of the Society, so as to get the more elaborate membership certificate? Yours truly,

Winsford. J. PARKINSON.

Legal Queries.

J. E. L. (14/8).—The recommendation of a toilet preparation for chilblains makes the article liable to medicinestamp duty.

J. K. (30/8).—Dutch Drops, as we stated last week, is always liable to medicine-stamp duty, no matter how it is labelled.

Caramel (11/8).—As your total remuneration for the year will probably be over 2507., you are not required to contribute to the health insurance scheme established under the National Insurance Act.

Phenacetin (7/8).—The Drugs for the Troops Order issued by the Army Council only deals with the retail sale of certain drugs to soldiers in uniform. It does not affect the purchase of phenacetin by manufacturers of headache powders.

E. S. D. (30/8) was demobilised in February 1919, and started in business as a pharmacist on April 14, 1919. About three weeks ago he received an assessment-form filled up with the income on which he was assessed for the tax year ending April 5, 1920, although he had not made any return of his income. He sent this back, and he then received an abatement-claim form, which he duly filled up and sent in. Now he is called upon to make a return of his income for the year 1920-21. He asks whether he is liable to income-tax for the year 1919-20. [It depends upon the amount of his income. This is to be calculated on the average of the three years prior to April 5, 1919, which we suppose would be the average of his Service pay during that period. He could also claim the abatement and the allowances, if any, appropriate to his condition for wife and children dependent on him. If he has not already done so, he should claim to be assessed on this basis, and to be granted the soldier's pre-war abatement of 1607.]

Rolyat (18/8) asks whether an unqualified proprietor of a drug stores who does not hold a wine licence may legally stock and sell: (1) Wincarnis with quinine; (2) meat and malt wine with quinine; or (3) any kind of medicated wine containing quinine or otherwise. He also inquires whether the fact of having served an apprenticeship and holding the indentures thereof enout licence. [The answer to each of "Rolyat's" rule queries is in the negative. The position is that the revenue authorities offer no objection to the sale without licence by a duly qualified chemist and druggist of certain medicated preparations. Such articles are required to be prepared according to the B.P. formulæ, must contain at the time of sale the prescribed proportions of the medicating ingredients, and be labelled so as to show by the dosage that the preparation is bona fide intended to be used as a medicine and not taken as a beverage. Thus, in the case of a quinine wine, each fluid ounce must contain the equivalent of 1 grain of quinina hydrochloride. This concession only applies to registered chemists and druggists.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

E. H. E. (23/8).—COLOURED GLASS.—It is not possible to reduce to exact terms the ingredients required to produce a particular colour of glass, from the fact that the various colouring agents employed give different tints with potash, soda, and lead glasses. The following formulas will give you an idea of the construction of recipes for

	te construction of recipes for
glass-making:	
Amber Bottle Glass.	Green Glass.
Silica 100 parts	Silica 100 parts
Chalk 38 parts	Chalk 20 parts
Sodium sulphate 40 parts	Sodium carbonate 33 parts
Cannel coal 14 parts	Iron oxide 3 parts
Charcoal 8 parts	•Copper oxide 5 parts
Charcoal 5 parts	Potassium bichro-
Red~Glass.	mate 12 parts
	Potassium nitrate 5 parts
Silica 100 parts	_
Calcium hydrate 24 parts	Yellow Glass.
Sodium carbonate 28 parts	Silica 125 parts
Potassium nitrate 8 parts	Potassium car-
Red lcad 8 parts	bonate 37 parts Red lead 52 parts
Copper oxide 4 parts	Red lead 52 parts
Cullet 100 parts	Potassium nitrate 7 parts
Iron oxide 4 parts	Uranium oxide 2 parts
	Black Glass.
Blue Glass.	Silica 100 parts
Silion 100 parts	Chalk 18 parts
Silica 100 parts	Sodium carbonate 24 parts
Chalk 25 parts	
Potassium nitrate 6 parts	Potassium car-
Sodium carbonate 36 parts	bonate 15 parts
Red lead 10 parts	Copper oxide 4 parts
Cullet 200 parts	Iron oxide 4 parts
Cobalt oxide § part	Manganese oxide 5 parts
Copper oxide 7 parts	
-	

G. D. J. (11/8).—Substitute for Santonin in Veteri-NARY MEDICINE.—Since santonin became so dear, practitioners have prescribed scammony in its place with good results. Areca-nut, however, still holds its ground in the treatment of worms. Given with jalap and antim. tart. or calomel it will prove as effective as santonin. The following is a suitable anthelmintic for pigs:

Ferri sulph	 	5ss.
Sulph. flor.,		
Pulv. arecæ	 aa.	5j-
Antim. tart. ,	 	gr. vx
Sodii chlorid	 	5iiv.

M. Fiat pulv.

This is a well-tried remedy and seldom fails. powder should be given daily on an empty stomach, for six days, this treatment usually making a thorough clearance of the parasite.

R. S. (30/8).—WATERPROOFING CANVAS.—The two chief methods of waterproofing fabrics are: (1) Dip the article into a solution of 5 to 10 parts of anhydrons wool-fat in 90 or 95 parts of petrol, the lanoline being first liquefied by a little chloroform, carbon bisulphide or carbon tetrachloride. (2) Dissolve calcium carbonate 130 grams in acetic acid 300 grams. Separately dissolve 300 grams of crystallised aluminium sulphate in 1,000 c.c. of water. Mix the solutions, shake and set aside for twenty-four hours, shaking occasionally; then decant the clear liquor. Make another solution of Castile soap 1 in 20. Damp the material with a sponge dipped in the aluminium-acetate solution; then do the same with the soap solution and dry.

F. J. N. (24/8).—See reply to "R. S."

Pericarp (26/8).—Books on Fats, Oils and Waxes.— Lewkowitsch's "Chemical Technology and Analysis of Oils, Fats and Waxes," 3 vols. (65s., Macmillan); Wright and Mitchell's "Oils, Fats, Waxes, and their Manufac-tured Products" (25s., Griffin).

R. S. A. (30/8).—BAY RUM.—The following formula, in which industrial methylated spirit is used, was approved by the Board of Customs and Excise some years ago. It shows the line upon which you must go to produce a bay rum that cannot be used as a beverage. Each user of this formula must obtain special permission to employ industrial spirit in its preparation:

Bay oil ... Bay oil ... Pimento oil ... Quassia extract 1 oz. Saponin 2 dr. Acetic ether 2 oz. Industrial spirit . . . Water ... 2 gals.

Dissolve the oils and acetic ether in the spirit; separately dissolve the extract in the water, and gradually add this to the spirit solution; add the saponin and set aside for at least eight days, then filter.

Anon. K. (17/8).—The swellings which disappear in twenty-four hours appear to be a form of urticaria, which may have an internal or external cause. The most common external cause is insect bites or harvest bugs, and the irritation is allayed by tincture of iodine. If this cause can be eliminated a course of calcium lactate or chloride may be tried.

E. L. II. (27/8).—Effect of Salt on Pigs.—It is one of the idiosyncrasies of the pig that the animal is easily poisoned by common salt, although this is an essential condiment for horses, cattle, and sheep. A red rash resembling a symptom of swine fever is produced in the pig by salt, and a salt-produced rash has often been mistaken for that characteristic of the more serious affection.

T. II. Ltd. (7/7).—Bronchitis and Asthma Mixture.-The formula for which you inquire is as follows:

Ammon, carb.	 	5j.
Ammon, chlor.		5ij.
Ext. glycyrrh. liq.,		0 0
Inf. seneg. conc.	 aa.	5vj.
Aq. chlorof. ad	 	žvj.

Misce. Dose: 5ij.—5iv.

J. II. II. (30/8).—PINE INHALANT.—The following is the formula for which you inquire:

Cajuput oil		 	1 oz.
Ether		 	1 oz.
Menthol		 	60 gr.
Eucalyptus	oil		1 oz.
Pine oil		 	1 dr.
Terebene	• • • •	 	1 oz.
Camphor		 	40 gr.

There is no creosote in the formula as registered.

Hastor (22/8).—The expression "valuation right through" is somewhat ambiguous, and should be considered in connection with the circumstances in respect of which it is used. The words taken by themselves seem to indicate a valuation of the business as a whole—i.e., lease, goodwill, stock, utensils, fittings, and tenant's

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i

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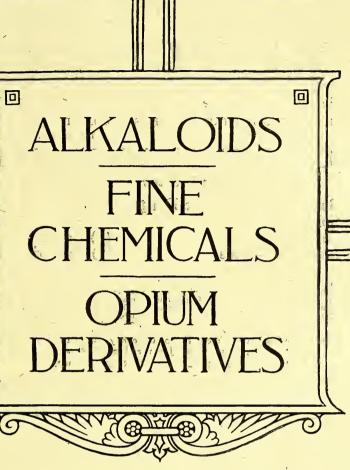
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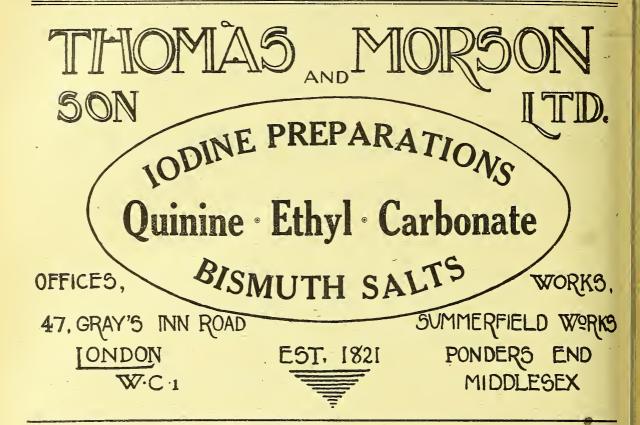
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A liquid extract from Cinchons Succirubra. Contains 5% of Quinine Alkaloid.

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(LUMIÉRE) For the treatment of Gonorrhea in its various stages by the internal administrations of specially prepared Gonococci. In Spherules, Rapid, effectual, barmless harmless.

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For Staphylococcal affections. In 2 c.c. ampoules for Intramuscular Injection.

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Oxide of Tin and Tin-metal free from lead. Treatment of Acne, Boils. etc.

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Solution of Saccharose. Intramuscu'ar Injection for Tuberculosis.

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Stable Suppositories of "606" (French Manufacture).
Simple, effective, harmless.
Give excellent clinical results.

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Contains the pure phosphates of lime and magnesia.

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Composed of Urotropine and Helmitol. powerful Urinary Antiseptic.

cissolves and eliminates Uric Acid VALERIANATE.

Valerian, without smell or taste

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331% ON COST.

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Retail **24**/- per dozen.

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For NEURALGIA, HEADACHE, RHEUMATISM and INFLUENZA.

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RE-EDUCATION OF THE INTESTINE.

Constipation, Enteritis, Hæmorrhoids, Indigestion, Skin Blemishes, &c. Price 5/- per box.

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POWERFUL BLOOD TONIC.

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Antiseptic for local Gynzecological se.

Price 4/- per box (powder)

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os.	va.	,,			• • •	• • •	26s. 6d.	22 80
5a	UA.	new size					50s. Od.	,,
US.	vu	Hew Size			• • •	• • •	202. Ou.	11 94
		(contains d	ouble the	quantity	of 3/- b	OX.		

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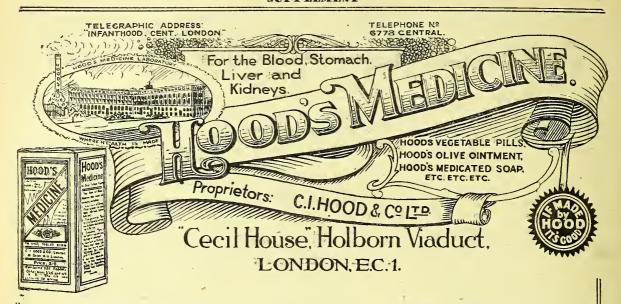
1s. 3d. size	જ .:.	•••	10s. 6d.	**	98
39 03			26s. 6d.		

Orders: Minimum quantity £5 value—approximately. | Packages FREE. Carriage PAID.

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Rowland's Macassar Oil, being now on the P.A.T.A. list, is well worth the attention of the Wholesale and Retail Trade, as it shows a fair margin of profit to all alike



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The Proven and most Reliable Preventive and Cure for TRAIN and SEA sicknesses.

Pecked in aluminium boxes enclosed in decorated cartors

Large size 8/- per box (enough for our journeys). Smal size 4/- per box (enough for two journeys) EACH BOX CONTAINS TWICE THE VALUE OF ANY OTHER SIMILAR REMEDY.

25% Discount For quanti les up to 6 dozen.
25% & 10% For quantities over 6 dozen and under 12 dozen.
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Special Extra Cash Discount 22% Discounts

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Nothing like Musterole for Neuralgia.

For sharp headaches and chronic cases of Neuralgia recommend Miller's Musterole to your customers. A little Musterole rubbed on temples and neck quickly draws out the inflammation, soothes away pain and gives great relief.

Many doctors and nurses frankly advise Miller's Musterole for this very purpose, as for sore throats, colds, sprains, bruises, and other ailments. For Musterole does the work of the oldfashioned mustard plaster, without the muss, without the blister.

Advertised convincingly in the public press, put up attractively in the handy white jar, Musterole's steady sale and certain beneficial results will build up greater profits and increased customer goodwill for you. Order a stock to-day. Prices and information on request.

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Clarke's Blood Mixture.

WHOLESALE PRICES.

3/- size Clarke's Blood Mixture £1-7-0 per doz. £16-4-0 per gross net. 12/- .. £5-8-0 £64-16-0

> Orders: Minimum Quantity £16-4-0 Value Carriage paid upon orders of £100.

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Above prices will give a Profit of $33\frac{1}{3}\%$ on cost to the Distributors.

Sole Proprietors:

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Increased cost of manufacture compels a rise in the prices of "New-Skin" as follows:

Retail Prices Trade Prices Size $10\frac{1}{2}d$.) Corresponding (8/5) Pocket Medium Increase in Physician's " 3/- | Trade Prices | 28/91 £3 and upwards Carriage Paid.

MODERATE STOCKS ARE NOW IN HAND.

Order through your Wholesaler, or direct-

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113 Temple Chambers, Temple Avenue,

September 4, 1920.

11/- ,,

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The following revised prices are

по	w in force:	
A.1	Minimum	
Advertised Price.	Retail Price.	Wholesale Price.
1/6 Blinblow Asthm		12/- doz-
, , , , , , , , , , , , , , , , , , , ,	,, 3 doz. lot	
1, ,,	,, 12 ,, ,,	11/- ,,
4/- ,, 🗃 ,,	,, 4/-	33/- ,,
85 - ,, ,,	,, 3 doz. lot	
7d. Gibbs Cold Crean	n Toilet Soap 7d. ta	b. 59/9 tabs.
1/9 ,, ,, ,,	(3-tab. box) 179	$15/-\frac{\text{doz}}{\text{boxes}}$
7d. ,, ,, Soa	p. Unscented 7d. ta	
1/9 ,, ,, - ,,	(3-tab. box) 1/9	15/- doz.
Hirst, Brooke &	Hirst, Ltd. Prepa	rations:
2/- Smedley's Paste	2/-	18/- doz.
3/- ,, ,,	2/-	27/- ,,
5/- ,, ,,	5/-	45/,
2/- Laseelles' Pills	2/	18/,
4/6	4/6	40/6 ,,
1 6 Gibbs Foot-Rot O	and the second s	13/6 ,,
3/- ,, ,,	,, 8/-	27/- ,,
7/ ,, ,,	7/-	63/- ,,
13/- ,,	,, 13/-	117/- ,,
	o., Ltd. Preparati	
9d. Medicated Pastille	es, Marble Tins 9d.	5/6 .,

TWO SIZES ONLY.

DR. J. COLLIS BROWNE'S CHLORODYNE

Prices and Terms:

TRADE:

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 1/3
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 Price (per dozen)

 12/3
 30/6

Discount 5 per cent. on £1 worth, $7\frac{1}{2}$ per cent. on £5 worth and upwards.

Packages charged at cost, and are not returnable.

Carriage forward.

Terms: Cash with order. Most Wholesale Houses supply on equal terms, so please order with your other goods.

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Chlorodyne

is on P.A.T.A. Protected List, & must not be sold below the prices named above.

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COMPOUND SULPHUR TABLETS

Containing Sulphur B.P., Cream of Tartar, Refined Sugar, Orange Flavoured, Guaranteed Pure.

Packed in 7-lb. Counter Boxes 2/2 per lb.

BISMUTHATED MAGNESIA TABLETS

Antacid and Refrigerant
Packed in 7-lb. Counter Boxes 3/- per lb.

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"DETERGOL" An Ideal Antiscptic Decodorant
No. 1 - 7/6 per gallon. DISINFECTANT

Contains 20% more Cresol than any other similar preparation. Surgical Instruments can be safely sterilised and disinfected in a few seconds without danger of corroding by using "Detergol." Used by the Medical Profession for fourteen years.

"DETERGOL" No. 2 - 4/6 per gallon.

For ordinary disinfecting purposes, miscible in water.

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Carriage Paúl on orders of \$\frac{1}{2}\$ and upwards in the U.K.

TABLETS, PILLS, etc., and CHEMICAL AND MEDICINAL PREPARATIONS of all descriptions Manufactured by

HOUGH, HOSEASON & CO., LTD.

Wholesale Manufacturing Chemists - MANCHESTER.

ALL REACTIONS of Body Fluids and Tissues are COLLOIDAL.

"Collosols" are pure and stable colloidal solutions, isotonic and isomorphic with the elements of the body.

CROOKES

"Collosols" are tested by ultramicroscopic bacteriological and clinical experiment.

COLLOSOL SULPHUR

Collosol Sulphur is not presented as a substitute for the Spa treatment of such affections where Spa treatment is available, but as a supplement to it. A course of treatment at a Spa can be followed up by the exhibition of Collosol should relapses occur.

For patients who are unable to take a course of Spatreatment, practitioners will find Collosol Sulphur invaluable.

It is prepared in five different forms—for external use and bath medication, for internal administration, for injection, and as a cream, with which the affected part is gently massaged. Also as an oil for the scalp.

Also the following COLLOSOL Preparations:—

ARGENTUM, ARSENICUM, CUPRUM, FERRUM, HYDRARGYRUM, IODINE, MANGANESIUM, PALLADIUM.

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In Jars. Tubes and Sample Tins.

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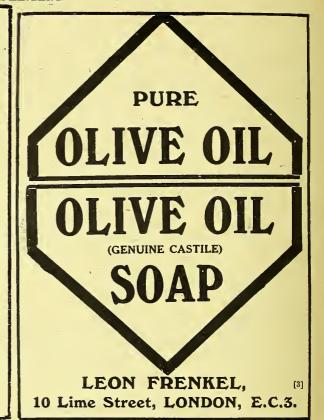
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Sample on application.

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IN FACT-ANYTHING.

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# EUCALYPTUS OIL

B.P. 70/80 %

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#### THE BEST SELLER.

This preparation, our latest Saline, made by our special process, without Sugar or Saccharine, is a unique Saline. It is strongly effervescent and delightfully palatable, making a bright, refreshing draught which acts as a mild but very thorough aperient, anti-acid and liver stimulant.

Bishop's Natural Fruit Saline is taken regularly with pleasure and safety by men, women and children all the year round. This steady demand makes it a profitable winter line. It keeps perfectly in all climates.

The Wholesale price is 20/- per doz. On £5 lots, discount 10%, and carriage paid.

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This ensures a profit of 9d. per bottle to the chemist.

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A COMBINED NERVE TONIC AND BLOOD PURIFIER.

Gives Renewed Health and Vigour. ::

Attractively packed.
Shows 50 % Profit to you.

Price in gross lots, per 100/- gross.
Carriage Paid.
Less Special Stocking
Bonus of 5 %



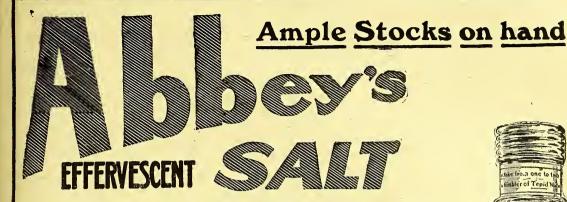
A scientifically prepared Effervescing Saline, possessing medicinal properties superior to the ordinary Health Salts

#### A FREE TIN

will be sent for your personal trial on receipt of application on letter heading.

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For more than a quarter of a century, Abbey's Salt was a favorite Saline and enjoyed a wide sale.

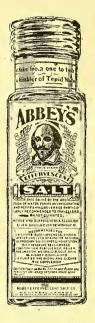
During the war, it—in company with many other commodities—was almost unobtainable.

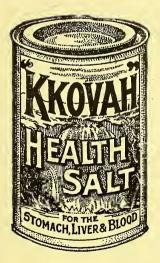
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Probably there is not one in ten of your customers who does not know "Kkovah."

Many of them are regular users, but obtain their supplies from other shops simply because you don't stock it.

Isn't it worth while taking advantage of this "ready-to-hand" demand, and so secure the extra profit without any trouble to yourself or your staff.

Write to-day for prices and terms.

SUTCLIFFE & BINGHAM, Ltd., MANCHESTER.

# THE CHEMIST AND DRUGGIST SEPTEMBER 4, 1920 Have you a WINE LICENCE? If not, you should take steps to procure one, and we will pay the cost. If you already have a licence we undertake to pay the annual charge. The only conditions are— 1. That you agree to give full display to Dr. Hale's Vin-Sanguis in your premises all the year round. 2. That you give us an agreed initial order. 3. That you keep Dr. Hale's Vin-Sanguis always in stock. Advertising Matter and Doctors' Samples free. Trans - Continental Agencies, Limited Proprietors of Dr. Hale's Vin-Sanguis. 1. Southampton Street, Strand, Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis. Debugging September 4, 1920 1. The proprietors of Dr. Hale's Vin-Sanguis.





(Harrogate)

P.A.T.A.

2/6 per doz. allowed for Empty Bottles

returned
Carriage Paid,
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Standardised & Bottled by CAMWAL, Ltd., at their Spring at Harrogate. Supplants Apenta, Hunyadi-Janos and German and Austrian Waters of similar Character

Of all Wholesale Houses,

HARROGATE, MANCHESTER, BIRMINGHAM, BRISTOL MITCHAM, LONDON, & DEPOTS. Special Export F.O.B. quotations, including packages.



COLEMAN & CO., Wincarnis Works, NORWICH.

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It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

#### IMPORTANT.

# Natural Mineral Waters.

WE beg to inform the Trade that we are now regularly receiving consignments of Natural Mineral Waters from the Continent and other parts of the World.

We are thus in a position to execute orders for the leading well-known Natural Mineral Waters, as under:—

## VICHY-CÉLESTINS

AND THE OTHER STATE SPRINGS

AESCULAP
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VITTEL etc., etc.

Prices of the above quoted on application.

Any Natural Mineral Water not in stock, if procurable, can be imported to special order during the Season.

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SELLS FREELY & READILY

PAYS 50% ON OUTLAY

An Infallible Remedy for GOUT, RHEUMATISM,

ECZEMA,

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#### AFFECTIONS.

P.A.T.A. Doz. Net. 4-oz. 1/~ 8-oz. 1/10 15/-Bottles 2/6 20/-

The only line of its kind on the market

SOLD EVERYWHERE

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#### WHY INTRODUCE AND SELL BRANDS FOR OTHER PEOPLE?

Every bottle you sell is an advertisement for the Manufacturer, and often your customer after your introduction frequently purchases elsewhere.

We can put you up a first-class Meat and Malt Wine, perfectly packed

#### UNDER YOUR OWN LABEL

with a guarantee to you of its nutrient value and quality. will more than compete with any brand on the market, and at a price which will give you a better return

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Write us for Samples stating quantity you use, and our quotations will surprise you. SEND US YOUR INQUIRIES FOR MALT EXTRACT.

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If you do not yet stock it your wholesaler will supply you.

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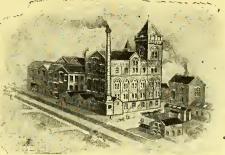
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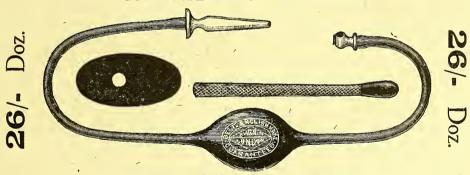
6×10 6×12 8×10 8×12 10× !4 SIZES 10×12 4/5 4/9 5/2 5/6 6/9 8/. each 6/-Each Bottle in a strong paper bag with directions for use.

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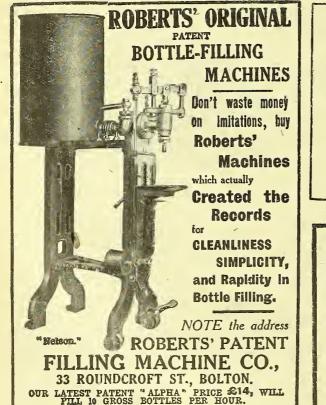
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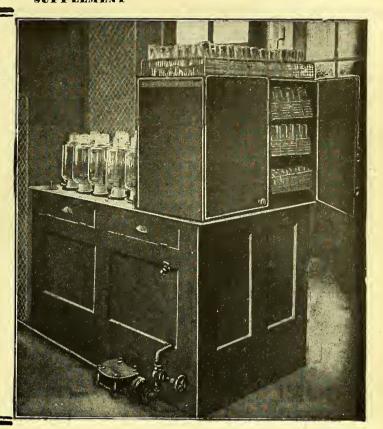
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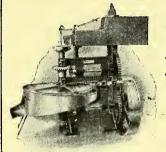
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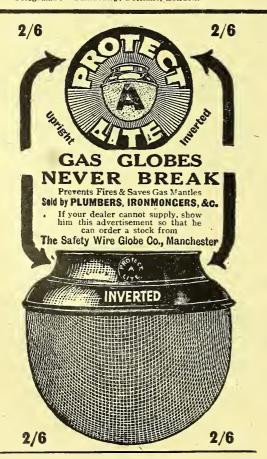


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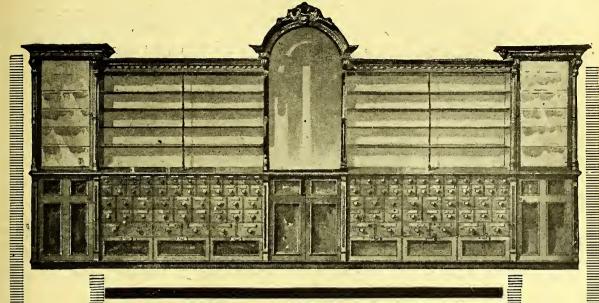
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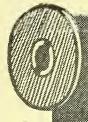
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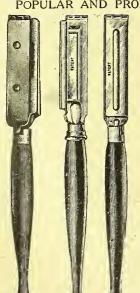
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# THE CHEMIST AND DRUGGIST

42 CANNON ST. LONDON, E.C.4.

SEPTEMBER 4, 1920

This Supplement is inserted in every copy of The Chemist & Druggisi

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A SSISTANT, unqualified, 23 to 25, single (male), for Ligh Retail, Dispensing, and Photographic business; outdoor Apply, stating salary required, height, etc., to A. Elliott Sewel Chemist, Huntingdon.

A SSISTANT.—The Oxford Drug Company, Limited, old established University and high-olass Family Chemist Oxford, have a vacancy for a Junior Assistant; good opening for energetic, gentlemanly Assistant, experienced in Counter work an Dispensing; state salary, references, etc., enclose photo.

A SSISTANT, qualified or unqualified, not under 30, for country business; capable of being left in charge; good Prescriber comfortable berth with easy hours; outdoors preferred. Apply with full particulars as to salary and references, Parsons, Denta Chemist, Ilminster, Somerset.

A SSISTANT, unqualified, about 25, for good-class Retail ar Dispensing; experience in Photographic trade essential; I Sunday duty, no N.H.I.; easy hours. Apply, stating age, heigh salary required (outdoors), with references, and enclosing pho (to be returned), R. Lucas, Bridgend.

A SSISTANT; unqualified; accustomed to quick, high-class but ness and Photography. State salary (outdoors), and enclophoto, to H. R. Browne, Pharmaceutical Chemist, Eastbourne.

A SSISTANT, Junior, male, with Dispensing experience, in goo class business; residential district, near Birmingham. Sta full particulars, 173/40, Office of this Paper.

A SSISTANT, of good appearance and address, required f good-class Retail and Dispensing business in Liverpoo must have had recent experience. State experience, age, a salary required, 172/34, Office of this Paper.

CHEMIST, qualified, wanted to manage branch shop. App stating age, experience, and salary required, with cop of not more than two recent testimonials, to Co-operative Socie Newgate Street, Newcastle.

EXPERIENCED Assistant, for end of September, in Lig Retail and Dispensing business; energetic; smart Count man; knowledge of Photography and good Window-dresser; fir class references essential. State salary and full particula Palmer, Chemist, Twickenham.

H OSPITAL for Consumption and Diseases of the Chest, Broton, S.W. 3.—The Committee of Management invite applitions for the post of CHIEF DISPENSER to the Hospital; Maqualification essential; salary £300 per annum, with lundaily. Applications and testimonials to be sent to the und signed uct later than Monday, September 13, 1920. Freder Wood Secretary. Wood, Secretary.

J. WEARING, Pharmacist, Woking, Surrey, has a vacancy a young gentleman as a Dispenser, and one who is acc tomed to good Counter business; particulars required, experien salary wanted, age, height, and when disengaged.

JUNIOR Assistant wanted (outdoors) about September 20 Apply, stating full particulars as to age, experience, salary required, to Gregory & Wrenn, Chemists, Taunton.

JUNIOR or IMPROVER (Male).—A vacancy for one just out of apprenticeship will occur shortly in a good-class Ramily and Dispensing business (indoors), where plenty of experience can be gained. Apply personally, or if by letter, with photo, stating salary expected, to David Anderson, Chemist, Crouch End, N. 8.

JUNIOR Assistant, unqualified, required for General Retail, Agricultural, and Dispensing business. Apply, stating particulars as to experience, references, salary (outdoors), to Allen & Neale, King's Lynn.

MR. W. F. CUTTIFORD wishes to thank those who replied to his advertisement, and wishes to state that the position is now filled; owing to the large number of applications, he is unable to reply-to each individually. 193 Langworthy Road, Seedley, Manchester.

MESSES. COOPER, SON & CO., Ltd., 80 Gloucester Road, S.W. 7, have a vacancy for a qualified Assistant as Dispenser, and to assist at the front Counter; must have had good experience. Apply, with full particulars, to "A. J. B. C."

QUALIFIED Assistant required for about six weeks (young), for Retail and Dispensing Business. Apply Lloyd, 207 Kmg's Road, Chelsea, S.W. 3.

QUALIFIED Locum required for small business, from September 10 to 25; references. Thorp, Bognor.

SENIOR, qualified (male), for Branch business; good-class Retail, Dispensing, and Photographic. Kindly give full partioulars of experience, state age, height, salary asked, and enclose photo (for return), Frederick March, Torquay.

UNQUALIFIED Assistant or a good Junior, trustworthy, and with good experience; permanency; casy hours. J. Jones, Pnarmaceutical Chemist, Bridgend, Glam.

UNQUALIFIED Assistant; Dispensing family trade; must be competent. Salary and usual particulars to C. M. Ward, 455 Anlaby Road, Huil.

UNQUALIFIED Assistant wanted at once; must have excellent references. Apply, stating full particulars, age, experience, salary required, etc., Wm. Fox & Sons, Ltd., 111 Bethnai Green Road, London, E. 2.

WANTED (immediately), Manager, qualified, for branch shop; one Assistant kept; good living accommodation; married preferred; good references essential; state when free and salary required. Osborne, 113 Broad Street, Reading.

WANTED, in September, experienced Assistant with knowledge of Photography, also Optics preferred; willing and reliable all-round man wanted; permanency if suitable; good references required; state age and salary required. Brades, Chemist, Llandudno.

WANTED, an Assistant; age 22 to 25; must be accustomed to N.H.I. Dispensing and capable of taking occasional charge. T. Byass-Jones, 331 West Green Road, Harringay, N.

WANTED, for October 18th, a thoroughly reliable, unqualified male Assistant, about 20; must have had a good Dispensing experience and a knowledge of Photography. Apply, giving full particulars in first letter as to experience and savary required (outdoors), and enclosing photo, to A. G. Harden, Chemist, 46 Grosvenor Road, Tunbridge Wells.

WANTED, Junior Assistant for Counter and Dispensing. Apply, with full particulars, to J. T. Sunman & Son, Chemists and Pharmaeists, 43 Wellington Street, Luton, Beds.

WANTED, smart Junior for September 20th; good-elass subarban business; outdoors; easy hours; must be competent and reliable. Write, stating terms, etc., S., 42 Wyatt Park Road, Streatham Hill, S.W. 2.

WANTED, an experienced Assistant Dispenser (lady), at a Voluntary Hospital in Manchester; Minor qualifications; with board and residence. Address, stating salary required, age, and full particulars, with copies of not more than three testimonials, to 357338, Office of this Paper.

#### WHOLESALE.

L ONDON Traveller required; capable of developing an established connection for Toilet and Froprietary lines. Write, stating details and salary expected, and references, in confidence, to 170/33, Office of this Paper.

A VACANCY occurs in the Analytical Laboratory of a well-known London firm of Wholesale Druggists for a Chief Assistant. The position is one which offers good prospects to an energetic and competent man. Applicants, who must have had Pharmaceutical experience, should apply, giving full particulars, salary required, etc., to 14/22H, Office of this Paper.

A DVERTISING.—Large London firm has a vacancy in its Advertising Department, suitable for recently qualified Pharmacist, with taste for writing and compiling advertising matter. Send full particulars of age, qualifications, previous occupation, etc., to 4/50B, Office of this Paper.

A RE YOU THE MAN?—Well-known firm in North of England open to appoint Live Manager, possessing initiative; must be a Chemist and able to control staff, also fully conversant with modern methods of Manufacturing. State full particulars and experience, in confidence, to 172/50, Office of this Paper.

CHEMIST wanted for important oil shale enterprise in the United Kingdom; the position is one in which the ability of the person chosen would have free scope in regard to analytical investigations; applicants must have held responsible position in the shale oil industry, had wide experience in Laboratory work, and be thoroughly conversant with experiments associated with the refining and fractionation of crude oils. Write, in confidence, giving full details of past experience and copies of testimonials, together with approximate salary desired, to Chemist, e/o 6" The Petroleum Times," 4 Broad Street Place, London, E.C. 2.

JUNIOR Invoice Clerk wanted by London Wholesale Druggists. Apply, stating experience and salary required, to P.C.B. 14/13, Office of this Paper.

Manufacturers require whole-time Representative for Glasgow-Edinburgh territory; must be able to maintain and increase an already established connection; salary, commission, and expenses; Representatives are also required for Liverpool and North Wales, S. Wales, Midlands, and West of England. 172/10, Office of this Paper.

PORTER and Packer required (at once) by Roberts & Co., 76 New Bond Street, W. Apply any morning between 10 and 12.30.

REPRESENTATIVE required by old-established firm manufacturing high-class Perfumery and Toilet articles; one with good connection London and South, and one with good connection wales; must be first-class reliable man. Apply, giving full particulars, references, etc., to 4/49B, Office of this Paper.

REQUIRED at once, by well-known Wholesale house in the North of England, a qualified man to take charge of Wet Room; must have thorough knowledge of the Wholesale trade. Apply, stating fully previous experience, salary required, etc., to W. P. B. (13/19G), Office of this Paper.

WANTED, in the Costing Department of a manufacturing firm, a smart, energetic young man of commercial experience; must be quick and accurate at figures. Apply, with full particulars as to age, experience, and salary required, 29/16P, Office of this Paper.

WANTED, by provincial Wholesale house, a Tablet Maker with thorough knowledge of Sugar Coating; give full particulars, references, and salary required. Apply 43/18W, Office of this Paper.

WANTED, by provincial house, capable Invoice Clerk, acquainted with the Drug and Patent Medicine trade. Apply, stating age and salary required, to "Alpha" (21/10L), Office of this Paper.

WHOLESALE Druggists near Manchester require a Wet Counter Hand; must be an accurate and systematic worker. Apply, stating full particulars of experience in the Drug trade, and wages required, to 148/40, Office of this Paper.

£350 MINIMUM.—Manager, qualified; thoroughly experibranches and small Wholesale; must have been accustomed to high-class Retail; salary and big commission; house supplied. Apply 172/2, Office of this Paper.

#### SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

CANADA.—Manager required for Tablet Department of a large concern with headquarters in Montreal, dealing in Hospital Supplies; applicant must have ability, energy, and executive capacity, seeing that the heads of various departments automatically become advisory directors of the whole business; excellent prospects for a suitable man desirous of settling down in the Dominion. Full particulars to 150/39, Office of this Paper.

NDIA.—Young Gentlemen, not over 25 years old, with Pharmaceutical experience and education, but not necessarily qualification, desirous of accepting positions as Travelling Salesmen in India under favourable conditions, should apply to 29/17P, Office of this Paper. Return passage paid. Living expenses in India allowed.

OUTH AFRICA.—Young, qualified Assistants open to accept situations in South Africa, should apply to Lennon, Limited, 12-14 Lafone Street, Tower Bridge, London, S.E. 1. South Africa is prosperous and advancing steadily; the climate is particularly fine and healthy; cost or living moderate.

SOUTH AFRICA.—Wanted, for South Africa, qualified Pharmaceutical Chemist's Assistant; three years' agreement; £400-£500; state age, experience; abstainer preferred, and knowledge Photographic Goods. Write "C. G.," c/o Street's, 30 Cornhill, London, E.C. 3.

TRUSS and Elastie Hosiery Fitter, with knowledge of Surgical Instruments, wanted for abroad; must be unmarried and of good address; passage paid out. Apply, by letter only, to "L.," 14 Lafone Street, Tower Bridge, S.E. 1.

#### SITUATIONS WANTED.

#### [HOME.]

#### RETAIL.

2s. for 18 words or less ; 6d, for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-,

A.A. A. Good Counterman, Dispenser; entire charge; moderace terms. "Pharmacist," 5 Marton Road, Middlesbrough.

A.A.—I HARMACIST, 27, single, demobbed officer, requires post in London or South Coast as Manager, or with view to succession; well recommended. Apply "Merit" (171/21), Office of this Paper.

A COMPETENT unqualified Assistant; experienced all branches, including Photography; 37; married; disengaged September 11th; highest references. Apply P.C.B. 14/3, Office of this Paper.

A LADY (Hall) requires post with Dispensing Chemist, Londou district; good Dispensing experience; London Matric.; disengaged. Joues, 17 Ruthm Road, S.E. 3.

A PHARMACIST desires post; 25; good Dispensing and Retail experience; excellent references; disengaged. Jones, 114 Sketty Road, Enfield.

A PHARMACIST, excellent experience, highest references, requires London Dispensing berth; disengaged beginning of October. Apply 171/33, Office of this Paper.

A PHARMACIST; disengaged; 24; tall; good Dispensing and Retail experience; excellent references. "R. W. P.," 52 Hemberton Road, Stockwell, S.W. 9.

A PHARMACIST with wide experience, Manager or Locum, disengaged. "Pharmacist," 4 St. Andrew's Square, Surbiton.

A QUALIFIED Pharmacist requires position in London, Manager or First Assistant; accustomed to high-class business; energetic, reliable. Apply 150/34, Office of this Paper.

A QUALIFIED Manager; permanency; Locum; 43; good references; Birmingham preferred. "Statim," 64 Lumb Lane, Bradford.

A DVERTISER, 24, tall, and of good address, desires post as qualified Assistant; home or abroad; fluent French. Apply 173/4, Office of this Paper.

A LL-ROUND man, experienced Assistant and Manager, town and country, well educated, desires berth; Locum or permanency; unqualified; 33. Apply 145/3, Office of this Paper.

A N active, qualified Chemist (36) seeks position with good firm; 8½ years' successful London Managership; business substantially uncreased; West-End Dispensing experience. "M.P.S.," 8 Priory Villas, Friern Barnet, N. 11.

A POTHECARIES' HALL.—Lady desires post with a Doctor residing in S.E. London or Hospital from end September. Address Martin, 127 Marlow Road, Anerley, S.E.

A S Assistant or Locum; young; excellent references; any locality; disengaged. 173/20, Office of this Paper.

A SSISTANT (25); first-class Dispensing Business experience, Photography; please state full particulars, hours, etc.; provincial. 173/37, Office of this Paper.

AS LOCUM; highest references; well recommended; provinces or London. Beta, c/o 35 Bon Lea Terrace, Thornaby-on-Tees.

A squalified Manager or Assistant; permanency preferred; 20 years' experience; disengaged at present. Davies, Ty Cwrdd, Llwynhendy, Llanelly.

A S qualified Manager or Locum; disengaged; good all-round experience; town or country. I. Fraser, 57 Cranbury Road, Fulham, S.W.

A SSISTANT, unqualified, 26, energetic, desires post; best West-End Dispensing and Counter experience; Spanish, Italian, and French; disengaged. Apply 170/40, Office of this Paper.

A SSISTANT; unqualified; 24; single; four years' pre-war N.H.I. Dispensing, Counter, Photography; London district, East preferred; disengaged September 13th; salary £3 10s. Apply 170/14, Office of this Paper.

A SSISTANT or Locum, 21, unqualified, in busy Dispensing establishment. Apply 148/35, Office of this Paper.

A SSISTANT or Manager; 30; unqualified, abstainer, reliable; 14 years' experience; highest references; permanency; South Coast, Brighton, or near; disengaged early October. Apply 147/33, Office of this Paper.

 ${f A}$  SSISTANT or Manager; unqualified; thoroughly reliable; age 45; takes real interest in business as proved by uudeniable references. Apply 147/20, Office of this Paper.

A SSISTANT.—Chemist's daughter desires change; qualified; eight years' high-class Dispensing and Counter experience. Moss, c/o Wain, Chemist, Ripley, Derby.

A SSISTANT; unqualified; ex-Service; disengaged; nine years' pre-war experience. Please give full particulars to "J." 55 Burnley Road, Ainsdale, Southport.

A SSISTANT; qualified; 35; good London experience; London or South Coast; good appearance and address; excellent references; partnership considered, or Management of Branch; personal interview. P.C.B. 14/6, Office of this Paper.

A SSISTANI, unqualified (26), desires permanency; 8 years' Dispensing, Photo, and general Retail; capable of taking charge or managing Drug Store; kindly state salary. Apply 172/26, Office of this Paper.

A SSISTANT; unqualified; 30; single; tall; abstainer; goodelass Suburban, Midland, and Seaside experience; Dispensing, Counter, Window-dressing; excellent references; interview arranged. Write "Blueclay," 3 Munro Terrace, West Hampstead, N.W. 6.

A SSISTANT, unqualified, 23, desires post; West London suburb; excellent references; London experience. Williams, c/o Rowe, Chemist, Narberth, Pembrokeshire.

A SSISTANT, unqualified, requires temporary position for one month; full or part time; excellent Dispenser, Counterman, etc; undeniable references. Apply H. David, 3 Recreation Road, Guildford.

A SSISTANT, age 20; 5 years' good all-round experience; Dispensing, Photography, and Manufacturing, and good Salesmau, etc.; Wholesale or Retail; permanency or Locum. P., 20 North Villas, Camden Square, N.W.

BIRMINGHAM OR DISTRICT.—Qualified, 27, desires permanency; disengaged September 23rd. "A. S. W.," 154 Bristol Road, Edgbaston, Birmingham.

BIRMINGHAM District.—Qualified, young, energetic, disengaged until October 6, desires temporary post; full or part time; moderate terms. Apply 172/12, Office of this Paper.

RANCH Manager, 39, qualified, experienced, desires permanent post; salary £6 per week. Howarth, 14 Milton Street, Burton-on-Trent.

BRANCH Manager (42), permanency or Locum, qualified, offers his services as being reliable and successful; 14 years' experience; disengaged 18th. "Easton," 29 Cleveland Street, Wolverhampton.

CHATTERTON, Locum Pharmacist, "Benn Rover," Northdown, Margate; open for engagements or Branch Managership; not solo; Thanet preferably; excellent references.

CHEMIST'S daughter (18) seeks post as part-time Improver; two years' experience; Peckham district. "Dispenser,"

CLERICAL.—Evening work of any kind; writing up accounts and posting up books; terms moderate. Write "F. G." (124/34), Office of this Paper.

COMPETENT, trustworthy, and highly recommended Assistant, unqualified, 29, married, requires position, middle September; thoroughly experienced in high-class Dispensing and Counter, sound knowledge of Photography, and capable of taking charge; South-West Counties preferred, but not essential. 173/38, Office of this Paper.

DISENGAGED September 25th, qualified, 26, desires permanency; London experience Dispensing and Counter. Apply 171/1, Office of this Paper.

DISENGAGED September 20th, qualified, 33, seeks position as Manager, with or without view to succession; all-round experience. J. F. Corlett, The Pharmacy, Norwich Road, Lowester.

DISENGAGED, temporary or permanency, Assistant, Manager of large and varied experience; 43; energetic; good address; unregistered. "Chemicus," 3 Godfrey Road, Newport, Mon.

DISENGAGED; Assistant; Locum or permanency; high-class West-End Dispensing and Counter experience; 20 years all round London. Arthur, 50 Ivanhoe Road, Grove Hill Road, Camberwell, London, S.E. 5.

DISENGAGED; qualified; single; 32; Locum or permanent; good references; any capacity; Midlands or North preferred. Cottman, 10 Burnley Road, Stockwell, S.W. 9.

DISPENSER; 36; qualified; very good Dental experience; moderate salary for light and comfortable berth. Apply 171/4, Office of this Paper.

DISPENSER, experienced, seeks situation with Doctor or Chemist. Apply "Dispenser," 25 Redburn Street, Chelsea, S.W. 3.

DISPENSER, lady (Hall); experienced Hospital and Surgery; excellent testimonials; London. Apply 175/9, Office of this Paper.

DISPENSER, Bookkeeper, and Chauffeur; experienced; age 39; smart appearance; doctor or chemist; good references; disengaged. Goodman, 20 Bestwood Street, S.E. 8.

DISPENSER-BOOKKEEPER (lady) requires post, preferably with Loctor; two years' experience; particulars, salary, etc. apply 170/9, Office of this Paper.

ELDERLY Chemist and Dentist disengaged; good all-round experience; reliable references, etc.; moderate salary; single 35 Hatcham Park Road, S.E. 14.

PRANCIS & CO., Pharmacists, Wrexham, can thoroughly recommend a qualified young lady Chemist (Square-trained), Counter work, Dispensing, or both; provinces preferred.

G. A. MALLINSON, LTD., Withington, have every confidence in recommending their late Assistant, now qualified; Manchester district preferred. A Hirst, 15 Victoria Road, Withington, Manchester.

HIGH-CLASS Assistant (lady) desires post with Chemist or Doctor; 8 years' experience Dispensing, Retail, and Photography; unqualified. 172/39, Office of this Paper.

HOSPITAL Locum; qualified; quick and accurate Dispenser; disengaged September 12. Green, 4 South Park Parade, liford.

MPROVER.—Young lady just completed Apprenticeship; good experience Dispensing and Counter; Manchester or Liverpool listrict preferred. Thos. Carter, Pharmaceutical Chemist, Dester.

MPROVER, just finished apprenticeship; age 18; Manchester district preferred, but not essential. A. Christopher, Victoria Pharmacy, Greenfield, Oldham.

JUNIOR, good at Dispensing and French, just completed West-End apprenticeship, London Matric., 6 feet, smart, keen, and willing, desires Assistantship in good London business, with time to attend some evening classes. H. N. L., 46 Compton Road, N. 21.

JUNIOR (21); good Counterman; well up in Photography; acoustomed to N.H.I. Dispensing; good references; East Widlands preferred, but not essential. Apply R. Blott, 11 koldington Road, Bedford.

JUNIOR (21), unqualified, requires position as Dispenser; four years' experience; good references; Birmingham district referred. Replies, Glossop, 73 Wheeleys Road, Edgbaston, Birmingham.

JUNIOR, qualified (22), desires post; good experience wanted; London for preference. "F. B. E.," 40 Alma Street, Stocktonon-Tees.

JUNIOR Assistant, 19½ years, 5 ft. 11 in., requires post; Nottingham preferred, not essential. "Simleur," 57 Westgate, Grantham.

JUNIOR seeks experience in good Dispensing House, in or out; age 19. H. H. Kerswell, 4 Mitcham Street, Wellington, Somerset.

KEEN, competent Manager, young, tall, desires progressive permanency; town and country experience. C. Willcox, the Fharmacy, Stonehouse, Glos.

KENT.—Unqualified (28); well recommended; Dispensing, Photography, Counter, Window; near Chatham preferred. M., 14 Gilbert Road, Bromley, Kent.

L.P.S.I., 32, experienced Dispenser and Salesman, desires permanency, England or Ireland; excelent references. "Chemist," The Pharmacy, Kinsale, Ireland.

ADY Secretary-Dispenser (Hall) desires post with Doctor or Institution; experienced. Apply "S.," 10 Gauden Road, Mapham, S.W.

ADY Dispenser (Hall) requires post with Doctor or Chemist; South Coast preferred or local; experienced Bookkeeper; eferences. Farrow, 65 Mayfair Avenue, Ilford, Essex.

ADY Dispenser (Hall), two years' experience, requires post with Doctor, Hospital, or Institution. Apply Allanson, Mornings Mill Farm, Willingdon, near Eastbourne, Sussex.

ADY Dispenser (Hall) requires post, Doctor or Institution; South-east Coast preferred. R. Harris, 50 Hartington street, Derby.

ADY Dispenser (Hall) desires post with Doctor or with Ohemist to learn Light Retail; please state terms. "W.," Holly Bush Cottage, Aberfan, Glam.

ADY Dispenser (Hall) requires Locum or permanent post; good Hospital experience; excellent testimonials. Leeder, Draycroft Road, Wanstead, E. 11.

ADY Dispenser (Hall); experienced; disengaged September 20; Locum or permanent. Miss Rawcliffe, 17 Star Street, Higher Broughton, Manchester.

ADY requires situation, outdoors; Minor qualification; three years' experience in a first-class West-End Dispensing busiiess; London preferred. Apply "E. M. S.," 42 Upper Addison lardens, W. 14.

OCUM; qualified; thoroughly experienced; well recommended; disengaged till 11th and after 25th inst. Dear, 111 Royal Parade, Eastbourne.

L OCUM, experienced and reliable, recommended by best "houses"; over seven years' references; disengaged September 11th. March, 10 Milward Crescent, Hastings.

L OCUM; qualified; 43; good Prescriber; abstainer; disengaged; reasonable terms; good oredentials. "Pharmacist" (173/32), Office of this Paper.

LOCUM; disengaged September 20; minor; 53; country; moderate terms; energetic; first-class experience and references; Photography, Optics. Dewey, Mr. Cheney's, Chemist, Leominster; after Saturday evening, Mr. Maundrell's, Chemist, Milton, Sittingbourne, Kent.

LOCUM; part-time or permanent; wide experience town and country; qualified Dispenser; competent and reliable; disengaged September 13. "Aspirin," 82 Dahomey Road, Streatham, S.W.

L OCUM-TENENS; middle-aged; all-round experience; disengaged September 6. "Locum-Tenens," 36 Capel Street, Newport, Mon.

M.P.S. (lady, 26) desires temporary or permanent engagement; London or Home Counties preferred. Apply 170/31, Office of this Paper.

M.P.S., young, energetic worker, desires post, good Disences: Jacob, Swaffham, Norfolk.

M.P.S. disengaged end of September 1; locum or permanency; experienced Prescriber, Optics, Photography, and Agricultural. Pharmacist (172/21), Office of this Paper.

M.P.S., MIDDLE AGED; light employment as Locum, or Woolwich. Chemist, 38 Bramblebury Road,

M.P.S., F.S.M.C., young, energetic, requires position in London; would build up Optical connection. "Kismet," 167 High Street, Southend.

MANAGER, qualified, experienced, desires post; Birmingham. 54 Cecil Road, Gravelly Hill, Birmingham.

MANAGER, qualified, middle-aged, desires temporary or permanent appointment in good-class business; best London and Provincial experience; excellent references; disengaged Saturday. "Antipyrin," Stanly House, Clapham Park Road, Clapham, S.W.

MANAGER or Locum; qualified; married; London and Country experience; free September 13. Williams, c/o Gaze & Co., Highams Park, E. 4.

MANAGER desires change; age 35; height 5 ft. 9 in.; qualified 1909; Photographic, Optical, and Dispensing experience; Midlands preferred. Mellor, 31 Lorne Street, Burslem, Staffs.

MANAGER or Locum; qualified; married; highest references; wide experience; good Prescriber; disengaged September 20th. 174/4, Office of this Paper.

MANAGING Assistant (40); unqualified; 25 years' all-round, excellent experience; disengaged; state salary. "Reliable," 1 Belle Vue, Pinner, Middlesex.

PART-TIME situation required in London by Minor Student, available October 1st; seven years' excellent Retail and Dispensing experience. Write "Energetic" (150/40), Office of this Paper.

PHARMACIST; worker; disengaged; experienced; practical Salesman, Prescriber, Optical, Window-dresser; town or country. M.P.S., 203 High Street, Margate.

QUALIFIED, part-time, which could be arranged as desired; Loadon district; now at liberty; age 35; experienced; abstainer. Apply "Experience" (170/18), Office of this Paper.

QUALIFIED (lady); good experience Dispensing and Counter; indoors preferred, but not essential; disengaged. Apply 150/37, Office of this Paper.

QUALIFIED, lady, Minor, West-End and General Retail experience, desires post in London. Miss Winser, 18 Drake-field Road, S.W. 17.

QUALIFIED Assistant, young, desires situation; London or Suburbs; excellent references. H. W., 682 High Road, Tottenham.

QUALIFIED, Assistant or Manager, temporary or permanencey, fourteen years' experience, requires berth immediately. "Chemist," 71 Alpha Road, Cambridge.

QUALIFIED Manager or Locum disengaged; West End, City, or good Suburban. Smith, 113 Brudenell Road, Upper Tooting.

QUALIFIED (27); good experience; energetic; excellent references; disengaged. C. Jay, Station Road, Sudbury, Suffolk.

QUALIFIED, young, single, square-trained Chemist's Son; West-End experience. Write M.P.S., Westcombe Park Pharmacy, Westcombe Hill, Blackheath.

QUALIFIED, ex-Service man, with disablement protection; light duties; Dispensing. Apply 173/24, Office of this Paper.

REQUIRED, about September 10th, Loeum post, by qualified woman. Apply 149/9, Office of this Paper.

S ENIOR qualified, with every possible experience of Retail Trade (English, Indian, Colonial) desires engagement in West of England. A. F. Collis, 3 Margaret's Buildings, Bath.

SMART Assistant; unqualified; 25; single; abstainer; experienced in high-class Dispensing and Counter, Photography; excellent references; Locum or permauency in South Loudon or City preferred. Apply 171/8, Office of this Paper.

SWISS Assistant, industrious and capable, speaking French, Italian, German, and fair English, with knowledge of international Pharmacy, wants situation from September 15. "Amyot" (25/50N), Office of this Paper.

UNQUALIFIED Assistant (25) desires post; Midlands preferred, not essential; good experience and references; disengaged. Evans, East Bank, Aberystwyth.

UNQUALIFIED; 28; abstainer; 12 years' Dispensing, Counter, and Window experience; Extractor; London. 173/36, Office of this Paper.

WANTED, situation; good Counterman, Dispenser, Window-dresser; town and country experience; good references. Usherwood, 155 Clive Road, Dulwich.

YOUNG lady (Hall) requires post as Dispenser with Doctor or Chemist. Coates, 12 Devereux Road, S.W. 11.

YOUNG lady requires post with Dispensing Chemist; used to quick Retail trade; good references. Apply 147/24, Office of this Paper.

YOUNG Lady requires situation in office; good experience for dispatch; speak French only. Apply P.C.B. 14/7, Office of this Paper.

#### WHOLESALE.

#### 2s. for 18 words or less : 6d. for every additional 10 words or less, prepaid.

A REPRESENTATIVE wishes post with good house, Drugs, etc.; over 20 years with Messrs. Allen & Hanburys, Ltd., London; good sound connection; highest references; disengaged. Apply A. J. Rickford, 14 Napier Avenue, Hurlingham, S.W. 6.

A YOUNG, energetic man (seven years' experience in Retail), since demobilisation travelling Birmingham district, requires post as representative (Midlands preferred) in Drngs, Sundries, etc., or Drysalteries, Oils, Colours; good all-round knowledge. "J. H. S.," 73 High Street, Bloxwich, Walsall.

A DVERTISER (27), qualified, demobbed officer, desires position of trust with Wholesale house; 10 years' Retail and Wholesale experience. Apply "Statim" (171/210), Office of this

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